

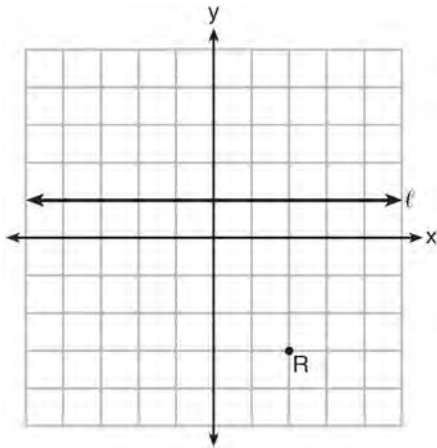
Algebra II Common Core State Standards Regents Bimodal Worksheets

- 1 Which equation represents a parabola with a focus of $(0,4)$ and a directrix of $y = 2$?
- 2 The solution set for the equation $\sqrt{56-x} = x$ is
- 3 Pedro and Bobby each own an ant farm. Pedro starts with 100 ants and says his farm is growing exponentially at a rate of 15% per month. Bobby starts with 350 ants and says his farm is steadily decreasing by 5 ants per month. Assuming both boys are accurate in describing the population of their ant farms, after how many months will they both have approximately the same number of ants?
- 4 Which statement(s) about statistical studies is true?
 - I. A survey of all English classes in a high school would be a good sample to determine the number of hours students throughout the school spend studying.
 - II. A survey of all ninth graders in a high school would be a good sample to determine the number of student parking spaces needed at that high school.
 - III. A survey of all students in one lunch period in a high school would be a good sample to determine the number of hours adults spend on social media websites.
 - IV. A survey of all Calculus students in a high school would be a good sample to determine the number of students throughout the school who don't like math.
- 5 If $p(x) = ab^x$ and $r(x) = cd^x$, then $p(x) \cdot r(x)$ equals
- 6 What is the solution, if any, of the equation $\frac{2}{x+3} - \frac{3}{4-x} = \frac{2x-2}{x^2-x-12}$?
- 7 Last year, the total revenue for Home Style, a national restaurant chain, increased 5.25% over the previous year. If this trend were to continue, which expression could the company's chief financial officer use to approximate their monthly percent increase in revenue? [Let m represent months.]
- 8 Relative to the graph of $y = 3 \sin x$, what is the shift of the graph of $y = 3 \sin\left(x + \frac{\pi}{3}\right)$?
- 9 The solutions to the equation $-\frac{1}{2}x^2 = -6x + 20$ are
- 10 Julie averaged 85 on the first three tests of the semester in her mathematics class. If she scores 93 on each of the remaining tests, her average will be 90. Which equation could be used to determine how many tests, T , are left in the semester?

11 The sequence $a_1 = 6, a_n = 3a_{n-1}$ can also be written as

12 The expression $\frac{4x^3 + 5x + 10}{2x + 3}$ is equivalent to

13 Which equation represents the set of points equidistant from line ℓ and point R shown on the graph below?



14 A solution of the equation $2x^2 + 3x + 2 = 0$ is

15 Given $f^{-1}(x) = -\frac{3}{4}x + 2$, which equation represents $f(x)$?

16 Which graph represents a cosine function with no horizontal shift, an amplitude of 2, and a period of $\frac{2\pi}{3}$?

17 The solution to the equation $18x^2 - 24x + 87 = 0$ is

18 The loudness of sound is measured in units called decibels (dB). These units are measured by first assigning an intensity I_0 to a very soft sound that is called the threshold sound. The sound to be measured is assigned an intensity, I , and the decibel rating, d , of this sound is found using $d = 10 \log \frac{I}{I_0}$.

The threshold sound audible to the average person is 1.0×10^{-12} W/m² (watts per square meter).

Consider the following sound level classifications:

Moderate	45-69 dB
Loud	70-89 dB
Very loud	90-109 dB
Deafening	>110 dB

How would a sound with intensity 6.3×10^{-3} W/m² be classified?

19 The population of Jamesburg for the years 2010-2013, respectively, was reported as follows: 250,000 250,937 251,878 252,822
How can this sequence be recursively modeled?

- 20 What is the solution set of the equation

$$\frac{3x+25}{x+7} - 5 = \frac{3}{x}?$$

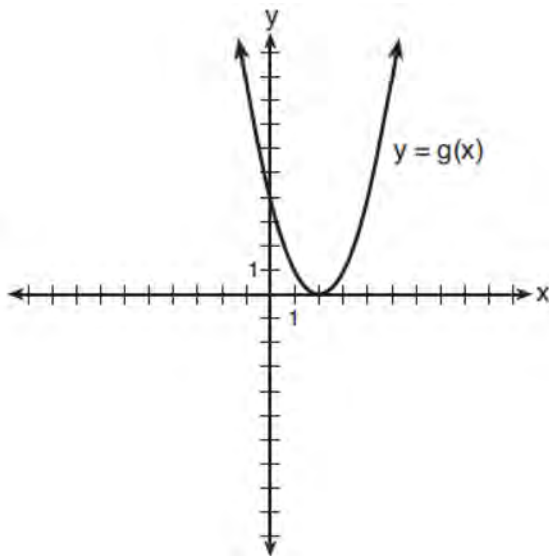
- 21 Mr. Farison gave his class the three mathematical rules shown below to either prove or disprove. Which rules can be proved for all real numbers?

I $(m+p)^2 = m^2 + 2mp + p^2$

II $(x+y)^3 = x^3 + 3xy + y^3$

III $(a^2 + b^2)^2 = (a^2 - b^2)^2 + (2ab)^2$

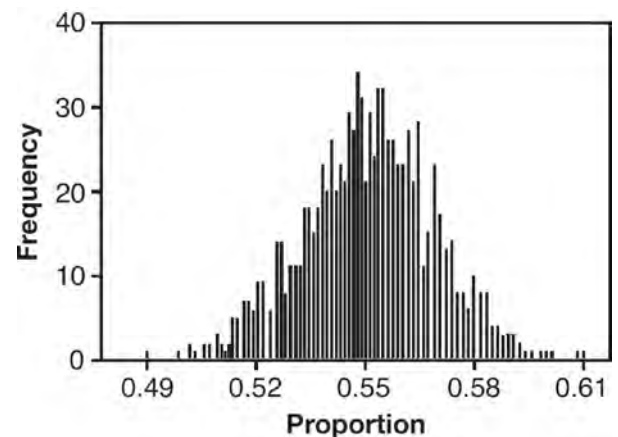
- 22 What is the solution to the system of equations $y = 3x - 2$ and $y = g(x)$ where $g(x)$ is defined by the function below?



- 23 A recursive formula for the sequence 18, 9, 4.5, ... is

- 24 Factored completely, $m^5 + m^3 - 6m$ is equivalent to

- 25 A candidate for political office commissioned a poll. His staff received responses from 900 likely voters and 55% of them said they would vote for the candidate. The staff then conducted a simulation of 1000 more polls of 900 voters, assuming that 55% of voters would vote for their candidate. The output of the simulation is shown in the diagram below.



Given this output, and assuming a 95% confidence level, the margin of error for the poll is closest to

- 26 The voltage used by most households can be modeled by a sine function. The maximum voltage is 120 volts, and there are 60 cycles *every second*. Which equation best represents the value of the voltage as it flows through the electric wires, where t is time in seconds?
- 27 Which diagram shows an angle rotation of 1 radian on the unit circle?

28 Given i is the imaginary unit, $(2 - yi)^2$ in simplest form is

29 The focal length, F , of a camera's lens is related to the distance of the object from the lens, J , and the distance to the image area in the camera, W , by the formula below.

$$\frac{1}{J} + \frac{1}{W} = \frac{1}{F}$$

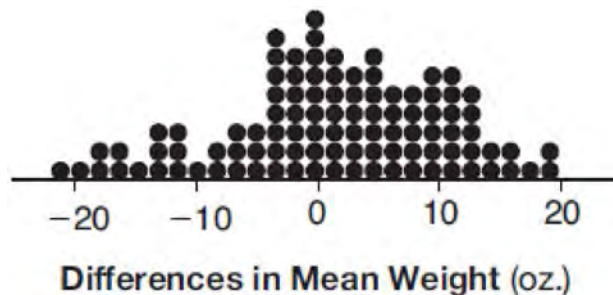
When this equation is solved for J in terms of F and W , J equals

30 In 2013, approximately 1.6 million students took the Critical Reading portion of the SAT exam. The mean score, the modal score, and the standard deviation were calculated to be 496, 430, and 115, respectively. Which interval reflects 95% of the Critical Reading scores?

31 What is the inverse of the function $y = \log_3 x$?

32 What is the completely factored form of $k^4 - 4k^2 + 8k^3 - 32k + 12k^2 - 48$?

33 Gabriel performed an experiment to see if planting 13 tomato plants in black plastic mulch leads to larger tomatoes than if 13 plants are planted without mulch. He observed that the average weight of the tomatoes from tomato plants grown in black plastic mulch was 5 ounces greater than those from the plants planted without mulch. To determine if the observed difference is statistically significant, he rerandomized the tomato groups 100 times to study these random differences in the mean weights. The output of his simulation is summarized in the dotplot below.



Given these results, what is an appropriate inference that can be drawn?

34 If the terminal side of angle θ , in standard position, passes through point $(-4, 3)$, what is the numerical value of $\sin \theta$?

35 The expression $\frac{6x^3 + 17x^2 + 10x + 2}{2x + 3}$ equals

36 To the *nearest tenth*, the value of x that satisfies $2^x = -2x + 11$ is

37 The completely factored form of $2d^4 + 6d^3 - 18d^2 - 54d$ is

38 If $\sin^2(32^\circ) + \cos^2(M) = 1$, then M equals

39 The set of data in the table below shows the results of a survey on the number of messages that people of different ages text on their cell phones each month.

Age Group	Text Messages per Month		
	0–10	11–50	Over 50
15–18	4	37	68
19–22	6	25	87
23–60	25	47	157

If a person from this survey is selected at random, what is the probability that the person texts over 50 messages per month given that the person is between the ages of 23 and 60?

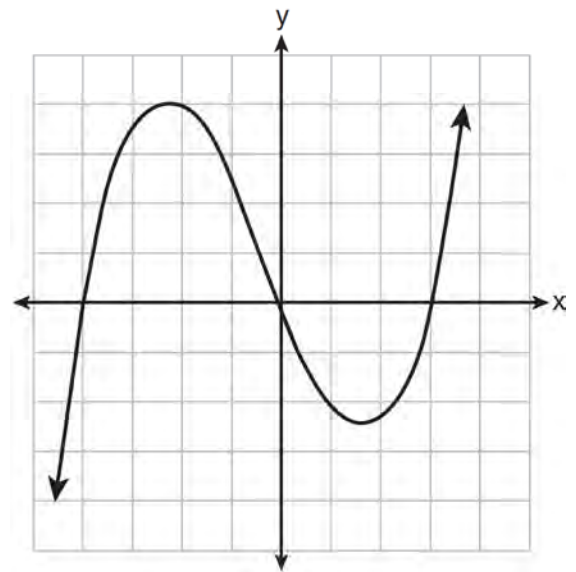
40 In 2010, the population of New York State was approximately 19,378,000 with an annual growth rate of 1.5%. Assuming the growth rate is maintained for a large number of years, which equation can be used to predict the population of New York State t years after 2010?

41 The Ferris wheel at the landmark Navy Pier in Chicago takes 7 minutes to make one full rotation. The height, H , in feet, above the ground of one of the six-person cars can be modeled by

$$H(t) = 70 \sin\left(\frac{2\pi}{7}(t - 1.75)\right) + 80, \text{ where } t \text{ is time,}$$

in minutes. Using $H(t)$ for one full rotation, this car's minimum height, in feet, is

42 The graph of $p(x)$ is shown below.



What is the remainder when $p(x)$ is divided by $x + 4$?

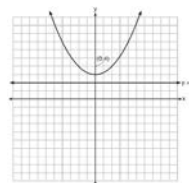
43 A payday loan company makes loans between \$100 and \$1000 available to customers. Every 14 days, customers are charged 30% interest with compounding. In 2013, Remi took out a \$300 payday loan. Which expression can be used to calculate the amount she would owe, in dollars, after one year if she did not make payments?

- 44 The zeros for $f(x) = x^4 - 4x^3 - 9x^2 + 36x$ are
- 45 A rabbit population doubles every 4 weeks. There are currently five rabbits in a restricted area. If t represents the time, in weeks, and $P(t)$ is the population of rabbits with respect to time, about how many rabbits will there be in 98 days?
- 46 When $g(x) = \frac{2}{x+2}$ and $h(x) = \log(x+1) + 3$ are graphed on the same set of axes, which coordinates best approximate their point of intersection?
- 47 The lifespan of a 60-watt lightbulb produced by a company is normally distributed with a mean of 1450 hours and a standard deviation of 8.5 hours. If a 60-watt lightbulb produced by this company is selected at random, what is the probability that its lifespan will be between 1440 and 1465 hours?
- 48 The heights of women in the United States are normally distributed with a mean of 64 inches and a standard deviation of 2.75 inches. The percent of women whose heights are between 64 and 69.5 inches, to the *nearest whole percent*, is
- 49 A circle centered at the origin has a radius of 10 units. The terminal side of an angle, θ , intercepts the circle in Quadrant II at point C . The y-coordinate of point C is 8. What is the value of $\cos \theta$?
- 50 Which value is *not* contained in the solution of the system shown below?
 $a + 5b - c = -20$
 $4a - 5b + 4c = 19$
 $-a - 5b - 5c = 2$
- 51 According to a pricing website, Indroid phones lose 58% of their cash value over 1.5 years. Which expression can be used to estimate the value of a \$300 Indroid phone in 1.5 years?
- 52 The expression $\frac{x^3 + 2x^2 + x + 6}{x + 2}$ is equivalent to

Algebra II Common Core State Standards Regents Bimodal Worksheets Answer Section

1 ANS:

$$y = \frac{x^2}{4} + 3$$



A parabola with a focus of $(0,4)$ and a directrix of $y = 2$ is sketched as follows: By inspection, it is determined that the vertex of the parabola is $(0,3)$. It is also evident that the distance, p , between the vertex and the focus is 1. It is possible to use the formula $(x - h)^2 = 4p(y - k)$ to derive the equation of the parabola as follows: $(x - 0)^2 = 4(1)(y - 3)$

$$x^2 = 4y - 12$$

$$x^2 + 12 = 4y$$

$$\frac{x^2}{4} + 3 = y$$

or A point (x,y) on the parabola must be the same distance from the focus as it is from the directrix. For any such point (x,y) , the distance to the focus is $\sqrt{(x - 0)^2 + (y - 4)^2}$ and the distance to the directrix is $y - 2$. Setting this equal leads to: $x^2 + y^2 - 8y + 16 = y^2 - 4y + 4$

$$x^2 + 16 = 4y + 4$$

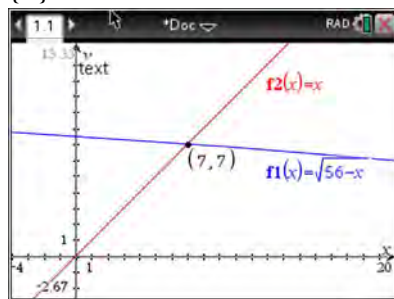
$$\frac{x^2}{4} + 3 = y$$

PTS: 2

REF: spr1502aii

TOP: Graphing Quadratic Functions

2 ANS:
{7}



$$\sqrt{56-x} = x \quad -8 \text{ is extraneous.}$$

$$56-x = x^2$$

$$0 = x^2 + x - 56$$

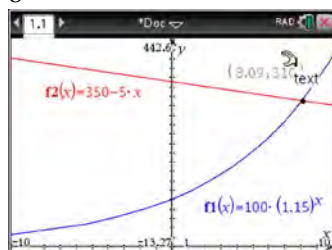
$$0 = (x+8)(x-7)$$

$$x = 7$$

PTS: 2 REF: 061605aia TOP: Solving Radicals

KEY: extraneous solutions

3 ANS:
8



PTS: 2 REF: 011716aia TOP: Other Systems

KEY: All

4 ANS:
I, only

II. Ninth graders drive to school less often; III. Students know little about adults; IV. Calculus students love math!

PTS: 2 REF: 081602aia TOP: Analysis of Data

KEY: bias

5 ANS:
 $ac(bd)^x$

PTS: 2 REF: 011710aia TOP: Operations with Functions

6 ANS:

-1

$$\frac{2(x-4)}{(x+3)(x-4)} + \frac{3(x+3)}{(x-4)(x+3)} = \frac{2x-2}{x^2-x-12}$$

$$2x - 8 + 3x + 9 = 2x - 2$$

$$3x = -3$$

$$x = -1$$

PTS: 2

REF: 011717aai

TOP: Solving Rationals

KEY: rational solutions

7 ANS:

$$(1.00427)^m$$

$$1.0525^{\frac{1}{12}} \approx 1.00427$$

PTS: 2

REF: 061621aai

TOP: Modeling Exponential Functions

KEY: All

8 ANS:

$$\frac{\pi}{3} \text{ left}$$

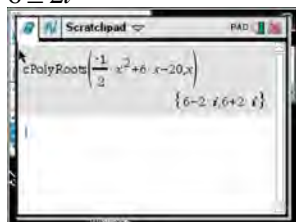
PTS: 2

REF: 011701aai

TOP: Graphing Trigonometric Functions

9 ANS:

$$6 \pm 2i$$



$$-2 \left(-\frac{1}{2}x^2 = -6x + 20 \right)$$

$$x^2 - 12x = -40$$

$$x^2 - 12x + 36 = -40 + 36$$

$$(x - 6)^2 = -4$$

$$x - 6 = \pm 2i$$

$$x = 6 \pm 2i$$

PTS: 2

REF: fall1504aai

TOP: Solving Quadratics

KEY: complex solutions | completing the square

10 ANS:

$$\frac{255 + 93T}{T + 3} = 90$$

PTS: 2

REF: 061602aai

TOP: Modeling Rationals

11 ANS:

$$a_n = 2 \cdot 3^n$$

PTS: 2

REF: 081618aai

TOP: Sequences

12 ANS:

$$2x^2 - 3x + 7 - \frac{11}{2x + 3}$$

$$2x + 3 \overline{) 4x^3 + 0x^2 + 5x + 10}$$

$$\underline{4x^3 + 6x^2}$$

$$-6x^2 + 5x$$

$$\underline{-6x^2 - 9x}$$

$$14x + 10$$

$$\underline{14x + 21}$$

$$-11$$

PTS: 2

REF: 061614aai

TOP: Rational Expressions

KEY: remainder

13 ANS:

$$y = -\frac{1}{8}(x - 2)^2 - 1$$

The vertex is (2, -1) and $p = 2$. $y = -\frac{1}{4(2)}(x - 2)^2 - 1$

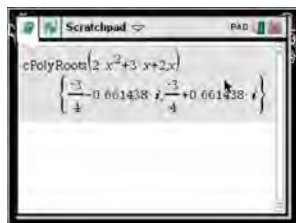
PTS: 2

REF: 081619aai

TOP: Graphing Quadratic Functions

14 ANS:

$$-\frac{3}{4} + \frac{1}{4}i\sqrt{7}$$



$$x = \frac{-3 \pm \sqrt{3^2 - 4(2)(2)}}{2(2)} = \frac{-3 \pm \sqrt{-7}}{4} = -\frac{3}{4} \pm \frac{i\sqrt{7}}{4}$$

PTS: 2

REF: 061612aai

TOP: Solving Quadratics

KEY: complex solutions | quadratic formula

15 ANS:

$$f(x) = -\frac{4}{3}x + \frac{8}{3}$$

$$x = -\frac{3}{4}y + 2$$

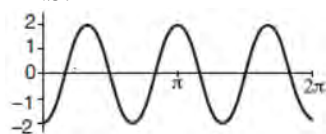
$$-4x = 3y - 8$$

$$-4x + 8 = 3y$$

$$-\frac{4}{3}x + \frac{8}{3} = y$$

PTS: 2 REF: 061616aai TOP: Inverse of Functions
KEY: equations

16 ANS:

(3) repeats 3 times over 2π .

PTS: 2 REF: 011722aai TOP: Graphing Trigonometric Functions
KEY: recognize

17 ANS:

$$\frac{2}{3} \pm \frac{1}{6}i\sqrt{158}$$

$$x = \frac{8 \pm \sqrt{(-8)^2 - 4(6)(29)}}{2(6)} = \frac{8 \pm \sqrt{-632}}{12} = \frac{8 \pm i\sqrt{4}\sqrt{158}}{12} = \frac{2}{3} \pm \frac{1}{6}i\sqrt{158}$$

PTS: 2 REF: 011711aai TOP: Solving Quadratics
KEY: complex solutions | quadratic formula

18 ANS:

very loud

$$d = 10 \log \frac{6.3 \times 10^{-3}}{1.0 \times 10^{-12}} \approx 98$$

PTS: 2 REF: 011715aai TOP: Evaluating Logarithmic Expressions

19 ANS:

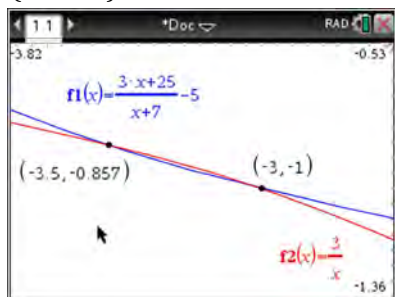
$$j_1 = 250,000$$

$$j_n = 1.00375j_{n-1}$$

PTS: 2 REF: 061623aai TOP: Sequences

20 ANS:

$$\left\{-\frac{7}{2}, -3\right\}$$



$$x(x+7)\left[\frac{3x+25}{x+7} - 5 = \frac{3}{x}\right]$$

$$x(3x+25) - 5x(x+7) = 3(x+7)$$

$$3x^2 + 25x - 5x^2 - 35x = 3x + 21$$

$$2x^2 + 13x + 21 = 0$$

$$(2x+7)(x+3) = 0$$

$$x = -\frac{7}{2}, -3$$

PTS: 2

REF: fall1501aii

TOP: Solving Rationals

KEY: rational solutions

21 ANS:

I and III

$$(x+y)^3 = x^3 + 3x^2y + 3xy^2 + y^3 \neq x^3 + 3xy + y^3$$

PTS: 2

REF: 081620aii

TOP: Polynomial Identities

22 ANS:

$$\{(1,1), (6,16)\}$$

$$y = g(x) = (x-2)^2 \quad (x-2)^2 = 3x-2 \quad y = 3(6)-2 = 16$$

$$x^2 - 4x + 4 = 3x - 2 \quad y = 3(1) - 2 = 1$$

$$x^2 - 7x + 6 = 0$$

$$(x-6)(x-1) = 0$$

$$x = 6, 1$$

PTS: 2

REF: 011705aii

TOP: Quadratic-Linear Systems

KEY: All

23 ANS:

$$g_1 = 18$$

$$g_n = \frac{1}{2}g_{n-1}$$

(2) is not recursive

PTS: 2 REF: 081608aai TOP: Sequences

24 ANS:

$$m(m^2 + 3)(m^2 - 2)$$

$$m^5 + m^3 - 6m = m(m^4 + m^2 - 6) = m(m^2 + 3)(m^2 - 2)$$

PTS: 2 REF: 011703aai TOP: Factoring Polynomials

KEY: higher power

25 ANS:

0.03

$$ME = \left(z \sqrt{\frac{p(1-p)}{n}} \right) = \left(1.96 \sqrt{\frac{(0.55)(0.45)}{900}} \right) \approx 0.03$$

PTS: 2 REF: 081612aai TOP: Analysis of Data

26 ANS:

$$V = 120 \sin(120\pi t)$$

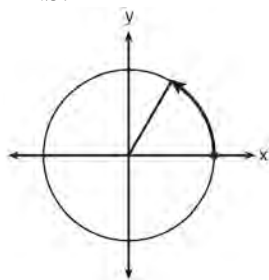
$$\text{period} = \frac{2\pi}{B}$$

$$\frac{1}{60} = \frac{2\pi}{B}$$

$$B = 120\pi$$

PTS: 2 REF: 061624aai TOP: Modeling Trigonometric Functions

27 ANS:



PTS: 2 REF: 081616aai TOP: Unit Circle

28 ANS:

$$-y^2 - 4yi + 4$$

$$(2 - yi)(2 - yi) = 4 - 4yi + y^2 i^2 = -y^2 - 4yi + 4$$

PTS: 2 REF: 061603aai TOP: Operations with Complex Numbers

29 ANS:

$$\frac{FW}{W-F}$$

$$\frac{1}{J} = \frac{1}{F} - \frac{1}{W}$$

$$\frac{1}{J} = \frac{W-F}{FW}$$

$$J = \frac{FW}{W-F}$$

PTS: 2 REF: 081617aii TOP: Solving Rationals
KEY: rational solutions

30 ANS:

$$496 \pm 230$$

$$496 \pm 2(115)$$

PTS: 2 REF: 011718aii TOP: Normal Distributions
KEY: interval

31 ANS:

$$y = 3^x$$

PTS: 2 REF: 011708aii TOP: Inverse of Functions
KEY: equations

32 ANS:

$$(k+2)(k-2)(k+6)(k+2)$$

$$k^4 - 4k^2 + 8k^3 - 32k + 12k^2 - 48$$

$$k^2(k^2 - 4) + 8k(k^2 - 4) + 12(k^2 - 4)$$

$$(k^2 - 4)(k^2 + 8k + 12)$$

$$(k+2)(k-2)(k+6)(k+2)$$

PTS: 2 REF: fall1505aii TOP: Factoring Polynomials
KEY: factoring by grouping

33 ANS:

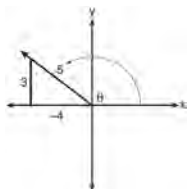
There was an effect observed that could be due to the random assignment of plants to the groups.

PTS: 2 REF: 011709aii TOP: Analysis of Data

34 ANS:

$$\frac{3}{5}$$

A reference triangle can be sketched using the coordinates $(-4, 3)$ in the second quadrant to find the value of $\sin \theta$.



PTS: 2

REF: spr1503aii

TOP: Determining Trigonometric Functions

35 ANS:

$$3x^2 + 4x - 1 + \frac{5}{2x+3}$$

$$\begin{array}{r} 3x^2 + 4x - 1 \\ 2x+3 \overline{) 6x^3 + 17x^2 + 10x + 2} \\ \underline{6x^3 + 9x^2} \\ 8x^2 + 10x \\ \underline{8x^2 + 12x} \\ -2x + 2 \\ \underline{-2x - 3} \\ 5 \end{array}$$

PTS: 2

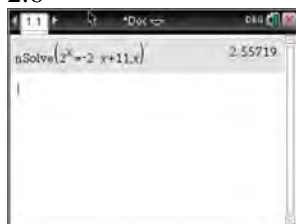
REF: fall1503aii

TOP: Rational Expressions

KEY: remainder

36 ANS:

2.6



PTS: 2

REF: 081603aii

TOP: Other Systems

KEY: All

37 ANS:

$$2d(d+3)^2(d-3)$$

$$2d(d^3 + 3d^2 - 9d - 27)$$

$$2d(d^2(d+3) - 9(d+3))$$

$$2d(d^2 - 9)(d+3)$$

$$2d(d+3)(d-3)(d+3)$$

$$2d(d+3)^2(d-3)$$

PTS: 2

REF: 081615aii

TOP: Factoring Polynomials

KEY: factoring by grouping

38 ANS:
32°

PTS: 2 REF: 011704aia TOP: Proving Trigonometric Identities

39 ANS:

$$\frac{157}{229}$$

$$\frac{157}{25 + 47 + 157}$$

PTS: 2 REF: 081607aia TOP: Conditional Probability

40 ANS:

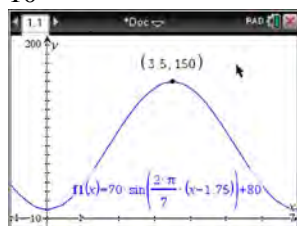
$$P_0 = 19,378,000$$

$$P_t = 1.015P_{t-1}$$

PTS: 2 REF: 081624aia TOP: Sequences

41 ANS:

10



$H(t)$ is at a minimum at $70(-1) + 80 = 10$

PTS: 2 REF: 061613aia TOP: Graphing Trigonometric Functions

KEY: maximum/minimum

42 ANS:

0

Since $x + 4$ is a factor of $p(x)$, there is no remainder.

PTS: 2 REF: 081621aia TOP: Remainder Theorem

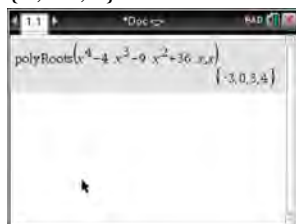
43 ANS:

$$300(1.30)^{\frac{365}{14}}$$

PTS: 2 REF: 081622aia TOP: Modeling Exponential Functions

KEY: All

44 ANS:
 $\{0, \pm 3, 4\}$



$$x^4 - 4x^3 - 9x^2 + 36x = 0$$

$$x^3(x - 4) - 9x(x - 4) = 0$$

$$(x^3 - 9x)(x - 4) = 0$$

$$x(x^2 - 9)(x - 4) = 0$$

$$x(x + 3)(x - 3)(x - 4) = 0$$

$$x = 0, \pm 3, 4$$

PTS: 2 REF: 061606aai TOP: Zeros of Polynomials

KEY: AII

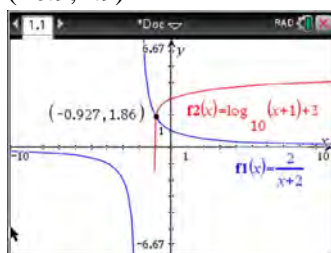
45 ANS:
 56

$$P(28) = 5(2)^{\frac{98}{28}} \approx 56$$

PTS: 2 REF: 011702aai TOP: Modeling Exponential Functions

KEY: AII

46 ANS:
 $(-0.9, 1.9)$



PTS: 2 REF: 011712aai TOP: Other Systems

KEY: AII

47 ANS:
0.8415



PTS: 2 REF: 081604aai TOP: Normal Distributions
KEY: probability

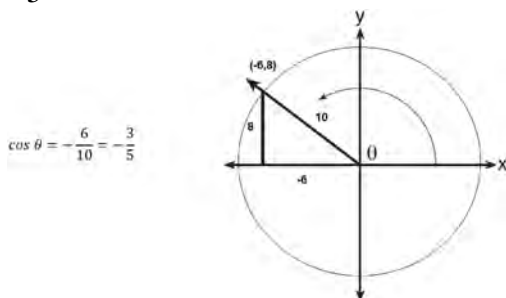
48 ANS:
48



$\bar{x} + 2\sigma$ represents approximately 48% of the data.

PTS: 2 REF: 061609aai TOP: Normal Distributions
KEY: percent

49 ANS:
 $-\frac{3}{5}$



PTS: 2 REF: 061617aai TOP: Determining Trigonometric Functions

50 ANS:
2

Combining (1) and (3): $-6c = -18$ Combining (1) and (2): $5a + 3c = -1$ Using (3): $-(-2) - 5b - 5(3) = 2$

$$c = 3$$

$$5a + 3(3) = -1$$

$$2 - 5b - 15 = 2$$

$$5a = -10$$

$$b = -3$$

$$a = -2$$

PTS: 2 REF: 081623aai TOP: Solving Linear Systems
KEY: three variables

51 ANS:

$$300e^{-0.87}$$

$$\frac{A}{P} = e^{rt}$$

$$0.42 = e^{rt}$$

$$\ln 0.42 = \ln e^{rt}$$

$$-0.87 \approx rt$$

PTS: 2

REF: 011723aii

TOP: Modeling Exponential Functions

KEY: All

52 ANS:

$$x^2 + 1 + \frac{4}{x+2}$$

$$x+2 \overline{) \begin{array}{r} x^2 + 0x + 1 \\ x^3 + 2x^2 + x + 6 \end{array}}$$

$$\underline{x^3 + 2x^2}$$

$$0x^2 + x$$

$$\underline{0x^2 + 0x}$$

$$x + 6$$

$$\underline{x + 2}$$

$$4$$

PTS: 2

REF: 081611aii

TOP: Rational Expressions

KEY: remainder