

Algebra II Practice A.APR.B.3: Solving Polynomial Equations

www.jmap.org

NAME: _____

Solve:

1. $x^3 - 2x^2 - 24x = 0$
2. $x^3 + 4x^2 - 21x = 0$
3. $x^3 - 2x^2 - 15x = 0$
4. $x^3 - 2x^2 - 35x = 0$
5. $x^3 - 2x^2 - 8x = 0$
6. $x^3 - 36x = 0$
7. $x^3 + x^2 - 12x = 0$
8. $x^3 + 2x^2 - 35x = 0$
9. $x^3 - 4x^2 - 21x = 0$
10. $x^3 + x^2 - 20x = 0$
11. $x^3 - 4x^2 - 12x = 0$
12. $x^3 + 3x^2 - 18x = 0$
13. $x^3 - 49x = 0$
14. $x^3 - x^2 - 12x = 0$
15. $x^3 - x^2 - 30x = 0$
16. $x^3 - x^2 - 6x = 0$
17. $x^3 + x^2 - 30x = 0$
18. $x^3 - 3x^2 - 28x = 0$
19. $x^3 + 3x^2 - 28x = 0$
20. The formula $w = 0.076C^3$ models the weight w in ounces for a grapefruit having a circumference of C in inches. Find the circumference, to the nearest hundredth of an inch, of a grapefruit that weighs 18 oz.

Algebra II Practice A.APR.B.3: Solving Polynomial Equations

www.jmap.org

[1] $-4, 0, 6$

[2] $-7, 0, 3$

[3] $-3, 0, 5$

[4] $-5, 0, 7$

[5] $-2, 0, 4$

[6] $-6, 0, 6$

[7] $-4, 0, 3$

[8] $-7, 0, 5$

[9] $-3, 0, 7$

[10] $-5, 0, 4$

[11] $-2, 0, 6$

[12] $-6, 0, 3$

[13] $-7, 0, 7$

[14] $-3, 0, 4$

[15] $-5, 0, 6$

[16] $-2, 0, 3$

[17] $-6, 0, 5$

[18] $-4, 0, 7$

[19] $-7, 0, 4$

[20] 6.19 in.
