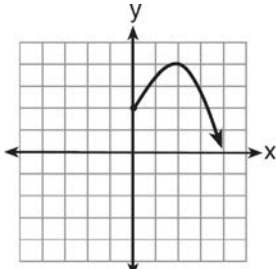
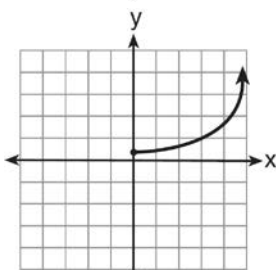


A.G.4: Graphing Exponential Functions: Identify and graph linear, quadratic (parabolic), absolute value, and exponential functions

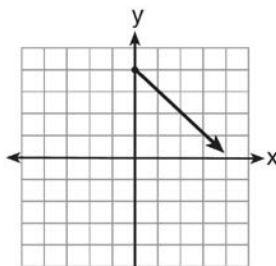
- 1 Which graph represents the exponential decay of a radioactive element?



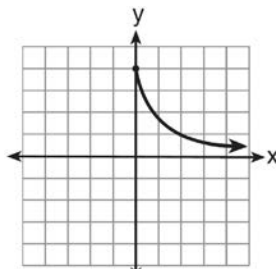
1)



2)

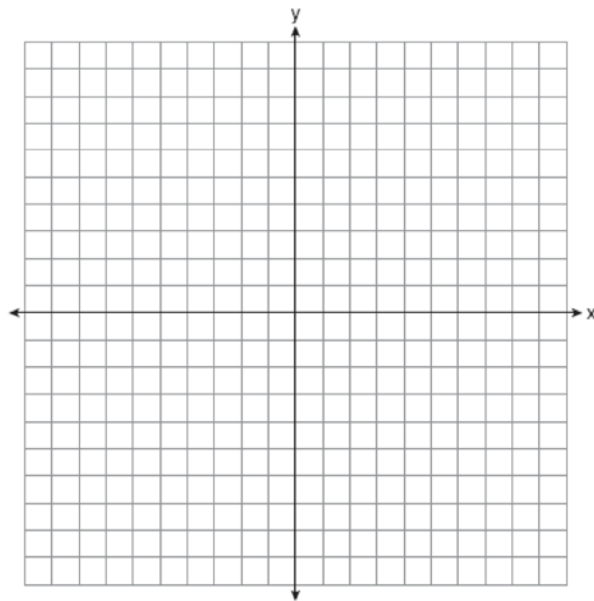


3)

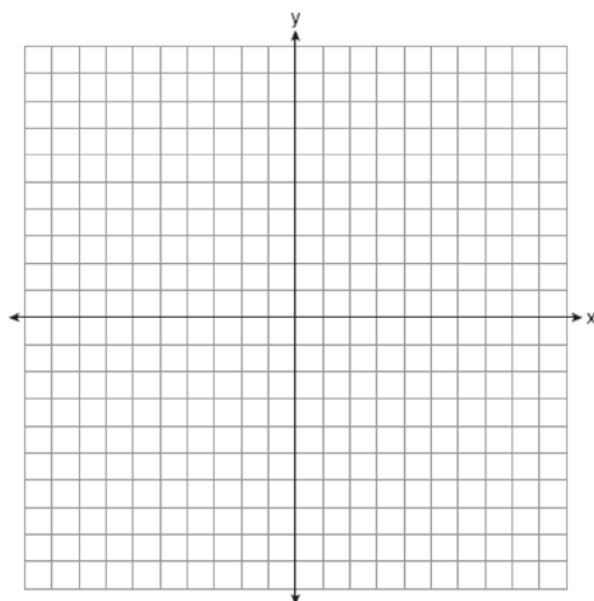


4)

- 2 On the set of axes below, draw the graph of $y = 2^x$ over the interval $-1 \leq x \leq 3$. Will this graph ever intersect the x -axis? Justify your answer.



- 3 On the set of axes below, graph $y = 3^x$ over the interval $-1 \leq x \leq 2$.

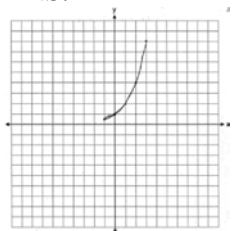


A.G.4: Graphing Exponential Functions: Identify and graph linear, quadratic (parabolic), absolute value, and exponential functions
Answer Section

1 ANS: 4

REF: 011423ia

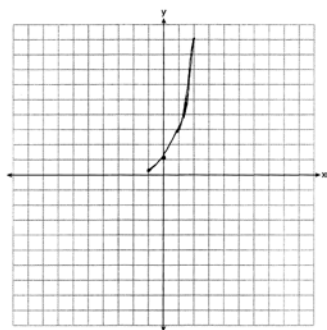
2 ANS:



. The graph will never intersect the x -axis as $2^x > 0$ for all values of x .

REF: 080835ia

3 ANS:



REF: 081233ia