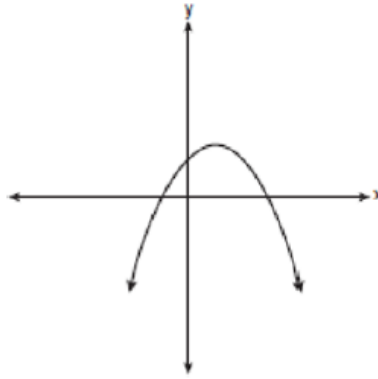


Families of Functions ... Set 2

Families of Functions

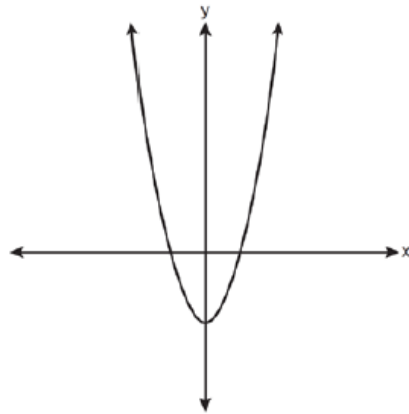
1 Which type of graph is shown in the diagram below?



- 1) absolute value
- 2) exponential

- 3) linear
- 4) quadratic

2 Which type of function is represented by the graph shown below?



- 1) absolute value
- 2) exponential

- 3) linear
- 4) quadratic

Families of Functions ... Set 2

Answers

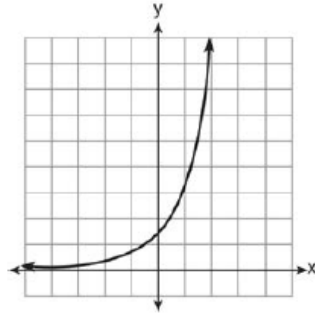
1 ANS: 4

2 ANS: 4

Families of Functions ... Set 2

Families of Functions

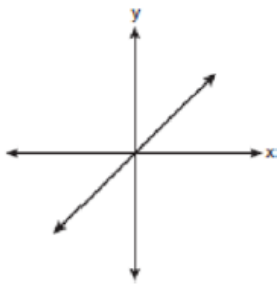
3 Which type of function is graphed below?



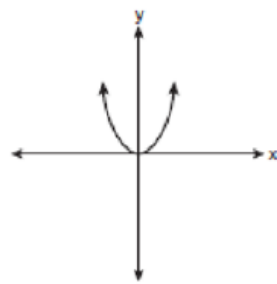
- 1) linear
- 2) quadratic

- 3) exponential
- 4) absolute value

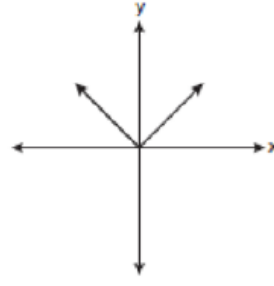
4 Which graph represents a linear function?



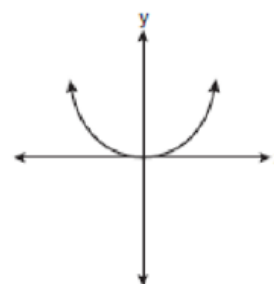
1)



2)



3)



4)

Families of Functions ... Set 2

Answers

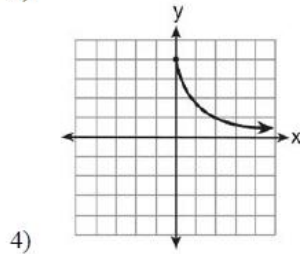
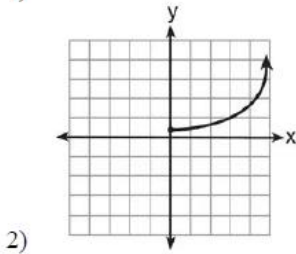
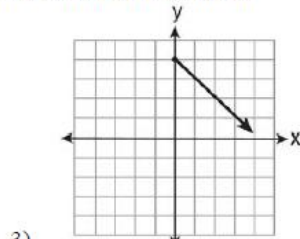
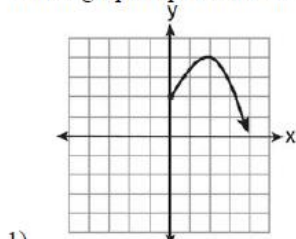
3 ANS: 3

4 ANS: 1

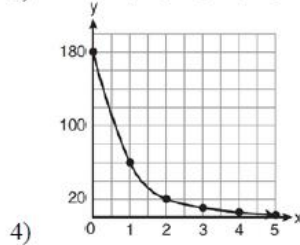
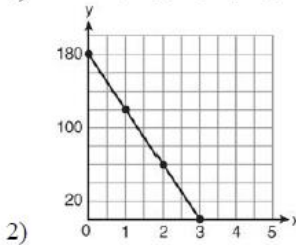
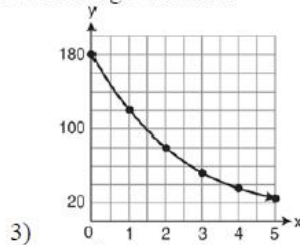
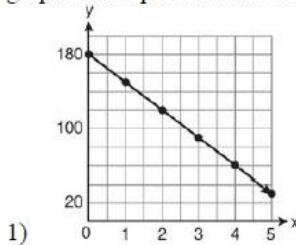
Families of Functions ... Set 2

Families of Functions

5 Which graph represents the exponential decay of a radioactive element?



6 On January 1, a share of a certain stock cost \$180. Each month thereafter, the cost of a share of this stock decreased by one-third. If x represents the time, in months, and y represents the cost of the stock, in dollars, which graph best represents the cost of a share over the following 5 months?



Families of Functions ... Set 2

Answers

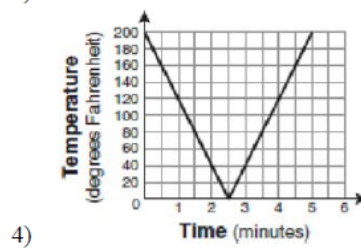
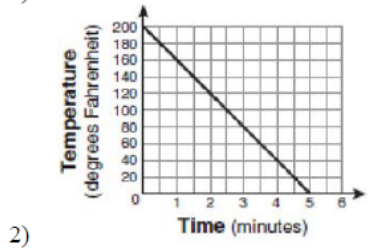
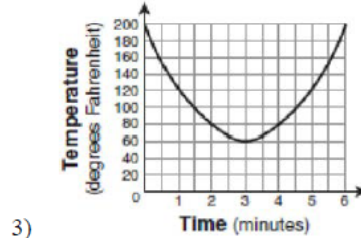
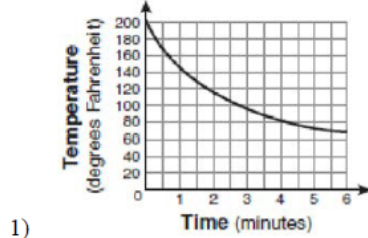
5 ANS: 4

6 ANS: 3

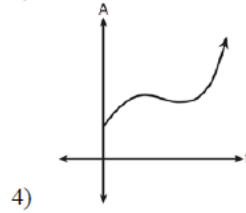
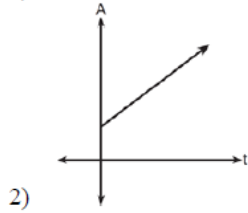
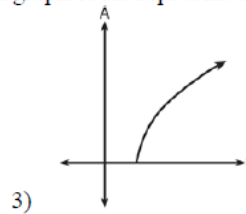
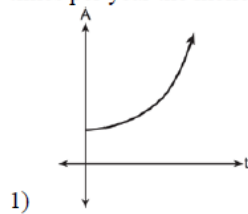
Families of Functions ... Set 2

Families of Functions

- 7 Antwaan leaves a cup of hot chocolate on the counter in his kitchen. Which graph is the best representation of the change in temperature of his hot chocolate over time?



- 8 An investment is earning 5% interest compounded quarterly. The equation represents the total amount of money, A , where P is the original investment, r is the interest rate, t is the number of years, and n represents the number of times per year the money earns interest. Which graph could represent this investment over at least 50 years?



Families of Functions ... Set 2

Answers

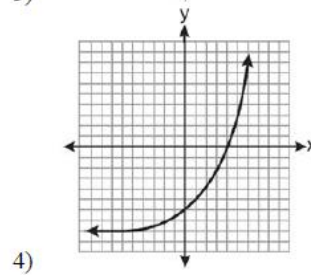
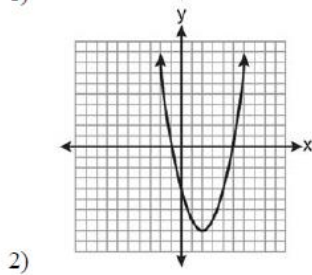
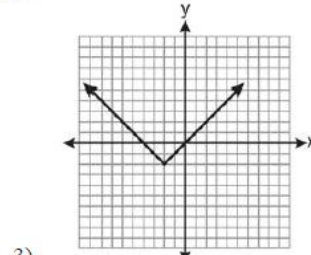
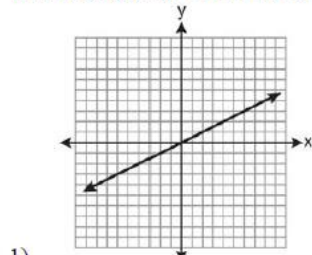
7 ANS: 1

8 ANS: 1

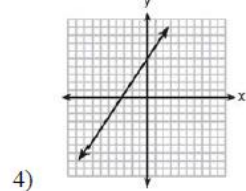
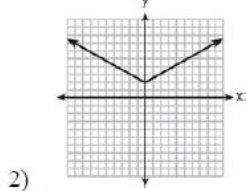
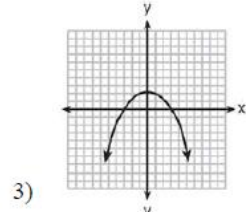
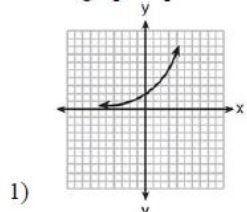
Families of Functions ... Set 2

Families of Functions

9 Which graph represents an exponential equation?



10 Which graph represents an absolute value equation?



Families of Functions ... Set 2

Answers

9 ANS: 4
10 ANS: 2