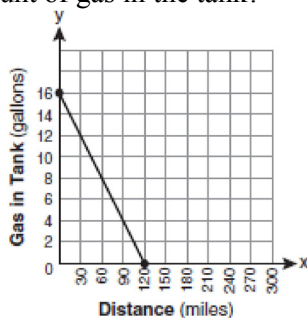
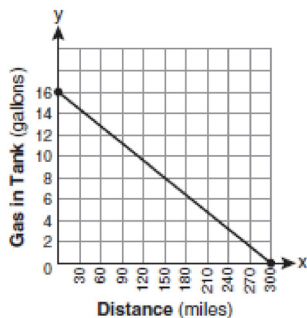


A.G.4: Graphing Linear Functions: Identify and graph linear, quadratic (parabolic), absolute value, and exponential functions

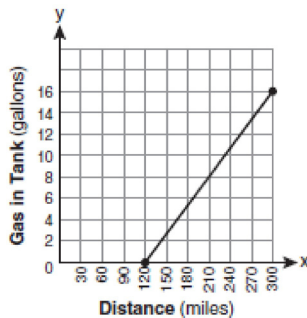
- 1 The gas tank in a car holds a total of 16 gallons of gas. The car travels 75 miles on 4 gallons of gas. If the gas tank is full at the beginning of a trip, which graph represents the rate of change in the amount of gas in the tank?



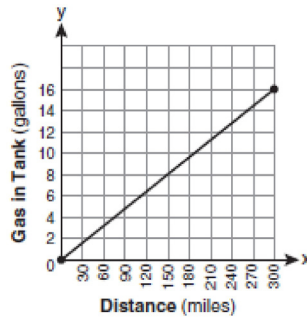
1)



2)

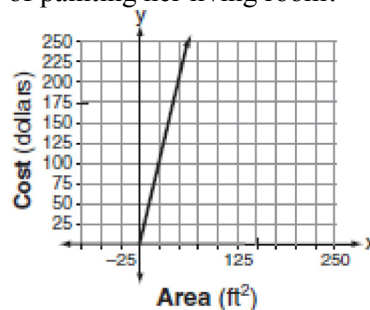


3)

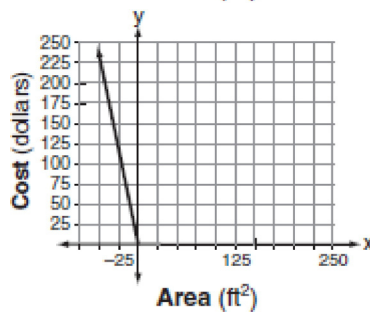


4)

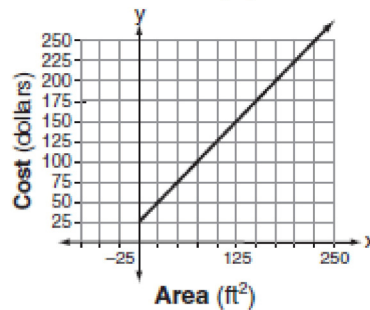
- 2 Super Painters charges \$1.00 per square foot plus an additional fee of \$25.00 to paint a living room. If x represents the area of the walls of Francesca's living room, in square feet, and y represents the cost, in dollars, which graph best represents the cost of painting her living room?



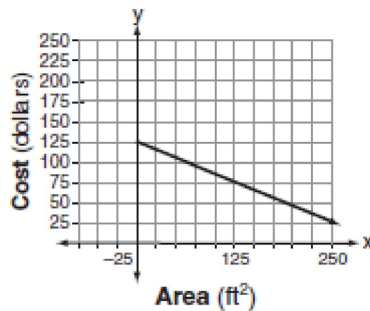
1)



2)



3)



4)

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

1 ANS: 2

If the car can travel 75 miles on 4 gallons, it can travel 300 miles on 16 gallons. $\frac{75}{4} = \frac{x}{16}$.
 $x = 300$

PTS: 2 REF: 080807ia

2 ANS: 3

This graph has a y -intercept of 25 and a slope of 1.

PTS: 2 REF: 080703a