Linear models

ExamView 1

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to determine how much money you have left over after x rides? \$15 on food. Rides at the fair cost \$2.00 per ride. Which function can be used You had \$100 when you went to the fair. You spend \$10 to enter the fair and

a.
$$f(x) = -2x + 75$$

b. $f(x) = -2x - 75$

$$d f(x)$$

c.
$$f(x) = -25 + 100$$

d. $f(x) = -2x - 75$

ExamView

to determine how much money you have left over after x rides? \$15 on food. Rides at the fair cost \$3.00 per ride. Which function can be used You had \$105 when you went to the fair. You spend \$15 to enter the fair and

a.
$$f(x) = -3x - 75$$

$$f(x) = -30 + 105$$

c.
$$f(x) = -3x - 75$$

d. $f(x) = -3x + 75$

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ExamView

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40	30	20	10	0	Total talk time minutes	A cell phone plan has a the correct statement regime of talk?
\$15.70	\$14.50	\$13.30	\$12.10	\$10.90	Monthly cost for use	nonthly cost that is shown arding the average rate of c
						A cell phone plan has a monthly cost that is shown in the table below. What is the correct statement regarding the average rate of change during the 40-minute time of talk?

- The average rate of change is \$0.12, meaning that for every ten minutes of talk time, the bill increases by \$0.12.
 The average rate of change is \$1.32, meaning that for each minute of talk time, the monthly bill increases by \$0.12.
 The average rate of change is \$1.32, meaning that for every ten minutes of c. The average rate of change is \$1.32.
- talk time, the monthly bill increases by \$1.32.
- d. The average rate of change is \$0.12, meaning that for each minute of talk time, the monthly bill increases by \$0.12.

1

- The domain is all real numbers from 238 to 600.
- þ. The domain is all real numbers from negative 711 to positive 1,800
- The domain is the integers from 238 to 600.
- The domain is all integers from negative 711 to positive 1,800.

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ExamView

Select the function that describes his distance from the finish line after x minutes Your buddy is running a 7-kilometer race. He runs 1 kilometer every 5 minutes.

a.
$$f(x) = \frac{1}{7}x + 7$$

c.
$$f(x) = -\frac{1}{7}x + 5$$

b.
$$f(x) = \frac{1}{5}x + 5$$

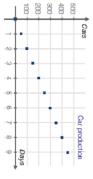
$$f(x) = -\frac{1}{7}x + 3$$

$$f(x) = -\frac{1}{5}x + 7$$



The graph shows the production of cars per day at a factory during a certain period of time. What is the domain of this function during this period?

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- The domain is all positive integers
- The domain is all real numbers 0 through 9. The domain is all integers 0 through 9.

The domain is all positive real numbers.

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amusement park that day, shown as h(x)? combination of these two functions to represent the total cost of attending the each ride they take, shown as g(x). What function shows the correct \$30, shown as f(x). Instead of getting a pass, your buddy decides to pay \$2 for You attend an amusement park with your buddy. You buy an all-ride pass for

a.
$$f(x) = 30$$
, $g(x) = 2x$, $h(x) = 2x + 30$

b.
$$f(x) = 30x$$
, $g(x) = 2$, $h(x) = 30x + 2$

b.
$$f(x) = 30x$$
, $g(x) = 2$, $h(x) = 30x + 2$
c. $f(x) = 30$, $g(x) = 2$, $h(x) = 2 + 30$

1.
$$f(x) = 30x$$
, $g(x) = 2x$, $h(x) = 30x + 2x$

2