

Test, Form 2A

Write the letter for the correct answer in the blank at the right of each question.

1. What is the slope (grade) of a road that rises 6 feet for every horizontal change of 100 feet?

A. $\frac{1}{100}$ B. $\frac{1}{6}$ C. $\frac{3}{50}$ D. $\frac{50}{3}$

1. **C**

2. What is the constant rate of change between the two quantities in the table?

Time (minutes) (x)	15	30	45	60
Number of Pages Read (y)	10	20	30	40

F. $\frac{30}{15}$ G. $\frac{15}{1}$ H. $\frac{2}{3}$ I. $\frac{1}{3}$

2. **H**

3. What is the slope of the line that passes through the points $E(-1, 4)$ and $F(2, 6)$?

A. $-\frac{3}{2}$ B. $-\frac{2}{3}$ C. $\frac{2}{3}$ D. $\frac{3}{2}$

3. **C**

4. The cost of nails varies directly with the number of pounds bought. If 4 pounds of nails cost \$11.60, what is the cost of 3.5 pounds?

F. \$5.80 G. \$10.15 H. \$11.60 I. \$13.05

4. **G**

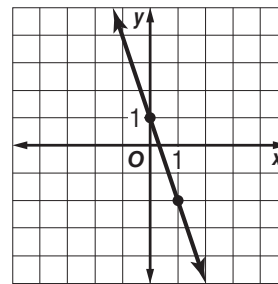
5. What are the slope and y -intercept for the graph of $y - 4x = -2$.

A. slope: -4 , y -intercept: -2
 B. slope: 4 , y -intercept: -2
 C. slope: -4 , y -intercept: 2
 D. slope: 4 , y -intercept: 2

5. **B**

6. What is the equation in slope-intercept form for the graph shown?

F. $y + x = -3$ H. $y - 3x = 1$
 G. $y = 3x + 1$ I. $y = -3x + 1$



6. **I**

7. What are the x - and y -intercepts for the graph of $-3x + 5y = -15$?

A. x -intercept: -5 , y -intercept: -3
 B. x -intercept: -5 , y -intercept: 3
 C. x -intercept: 5 , y -intercept: 3
 D. x -intercept: 5 , y -intercept: -3

7. **D**

