

**Rate of Change (Slope) STAR Practice**

$$\text{Slope (Rate of Change) of a line} = \frac{\text{rise}}{\text{run}} = \frac{y_2 - y_1}{x_2 - x_1}$$

1. What is the slope of the line that passes through the points  $(-6, -2)$  and  $(2, 7)$ ?

- A.  $-\frac{9}{8}$   
 B.  $\frac{9}{8}$   
 C.  $2\frac{3}{4}$   
 D.  $-\frac{9}{8}$

2. What is the slope of the line that passes through the points  $(3, -2)$  and  $(7, 0)$ ?

- A. 2  
 B.  $\frac{1}{2}$   
 C.  $2\frac{1}{2}$   
 D.  $\frac{1}{2}$

3. The slope of a line that passes through the points  $(3, 2)$  and  $(7, 10)$  is 4. What is the value of  $x$ ?

- A. 10  
 B. 1  
 C. 4  
 D. 8

4. What is the rate of change of the following graph?



- A. 2  
 B.  $\frac{1}{3}$   
 C.  $-\frac{1}{3}$   
 D.  $-\frac{1}{2}$

5. The graph models the linear relationship between the position of a ball in the air and the seconds that have elapsed since the ball was thrown. Which of the points best represents the rate of change in position with respect to time?

- A.  $(0, 0)$   
 B.  $(1, 2)$   
 C.  $(2, 4)$   
 D.  $(3, 6)$



# Multiple Choice Rate Of Change Questions

**S Marginson**



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web laser beam machining is widely used for various material removal applications since it provides highly concentrated energy source to cut the materials in laser through cutting a kerf is created through relative motion between the laser beam and the workpiece surface while profiling 26