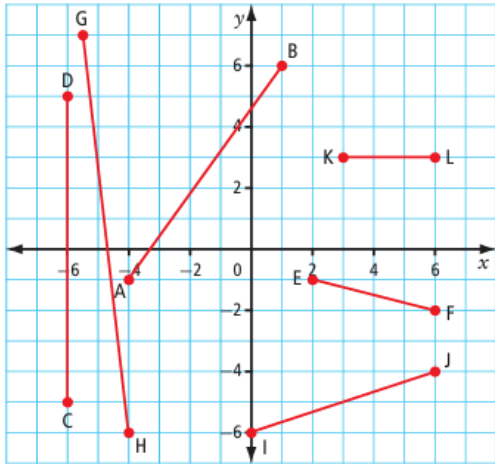


*Slope*

Show You Know

Ex. 1

Classify the slope of each line segment as positive, negative, or neither.



Ex. 2

Suppose that the roof truss in Example 2 has a height of 1 m and a span of 8 m. Determine the pitch and explain your answer.

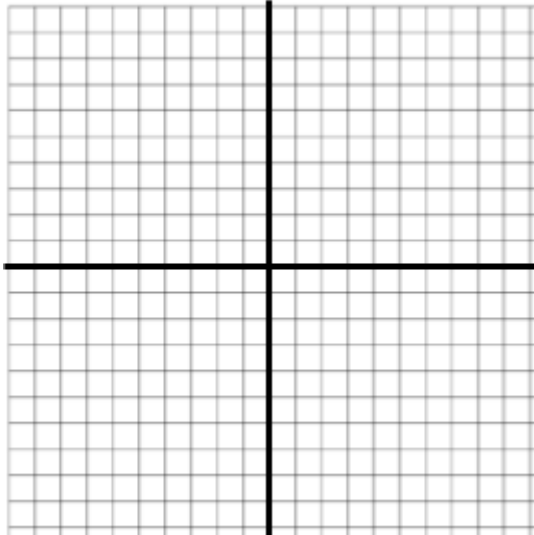
Ex. 3

- a) Use a graph to determine the slope of the line segment with endpoints  $P(-5, 6)$  and  $Q(1, 10)$ .
  
- b) Use the slope formula to determine the slope of the line segment with endpoints  $W(2, -2)$  and  $X(-5, 5)$ .

*Slope*

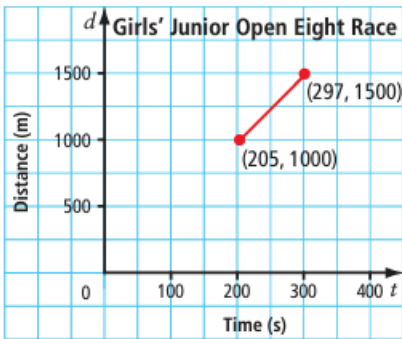
Ex. 4

The point  $(-6, 1)$  is on a line that has a slope of  $\frac{1}{3}$ . List three other points on the line and graph the line.



Ex. 5

The graph shows the approximate times at the 1000-m mark and at the 1500-m mark for a rowing crew of the girls' junior open eight race at the Brentwood Regatta. Determine the average rate of change for this portion of the race.



*Slope*

Practice

1. Place each line segment in the diagram in the appropriate column.

Positive Slope	Negative Slope	Zero Slope

2. Graph a line from each given point back to the origin. You can use the same coordinate grid. Label each line. Determine the slope of each line.

a.  $(4, -2)$

b.  $(7, 3)$

c.  $(-3, 0)$

d.  $(-2, -5)$

