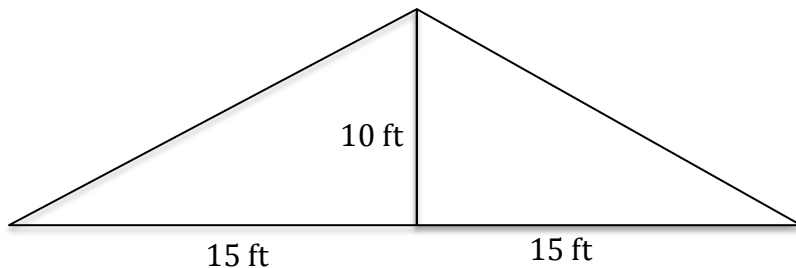


Key Concepts/Learning Goals:

- A line with a positive slope goes \_\_\_\_\_ from left to right; a line with a negative slope goes \_\_\_\_\_ from left to right.
- A \_\_\_\_\_ line has a slope of **zero**.
- Parallel lines have the same \_\_\_\_\_
- Ignoring the sign on the coefficient of  $x$ , the greater the coefficient of  $x$ , the \_\_\_\_\_ the line.

EXAMPLE 1: Positive and Negative Slopes

Determine the slope of the left side of the roof.

**REMEMBER**

*slope is  $m$*

$$m = \frac{\text{rise}}{\text{run}}$$

SOLUTION

EXAMPLE 2: Positive and Negative Slopes

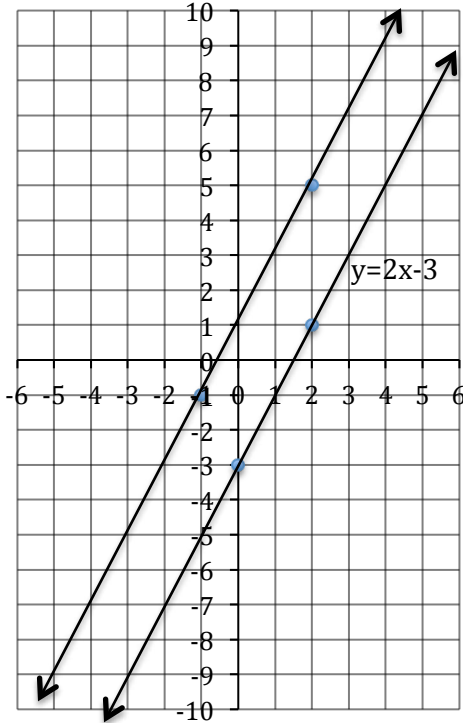
Determine the slope of the right side of the roof that is shown in the example above.

SOLUTION

Describe the difference between the positive and negative slopes.

**EXAMPLE 3: PARALLEL LINES**

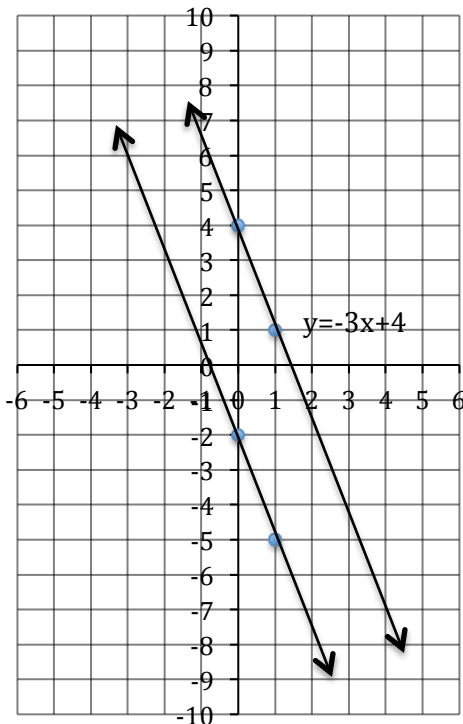
a) Write the equation of the line that is parallel to labeled line.



Recall:  $y=mx+b$   
 $m$  is the slope,  $b$  is the  $y$ -intercept

**SOLUTION**

b) Write the equation of the line that is parallel to labeled line.



Recall:  $y=mx+b$   
 $m$  is the slope,  $b$  is the  $y$ -intercept

**Solution****Practice Questions**

1, 2 (a, c, e, g), 3(a, c), 4(a, c), 5(a, c),  
 6(a, b, d), 8(a, b, c, d), 9