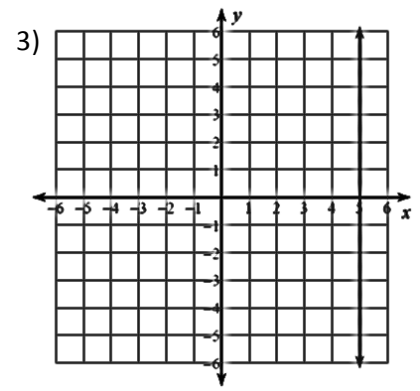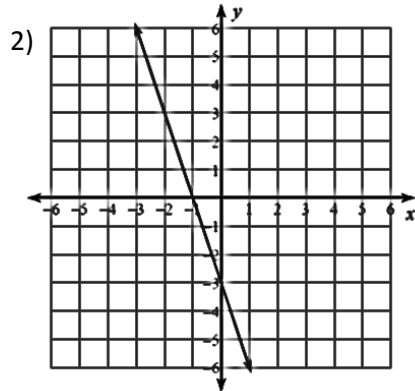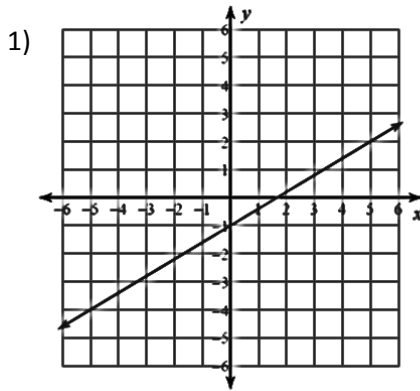**Parallel Lines and Perpendicular Lines on a Coordinate Plane**   **Geometry**

Directions: Find the slope of each line.

1)

2)

3)

Directions: Find the slope of the line that passes through the two points.
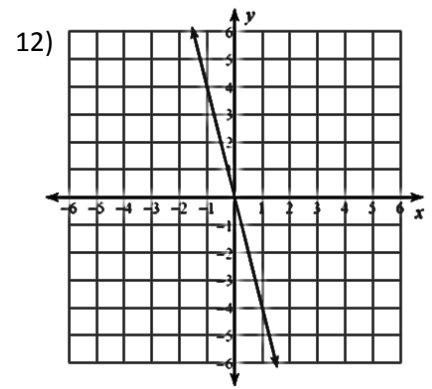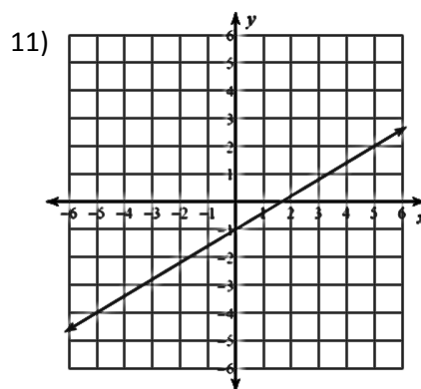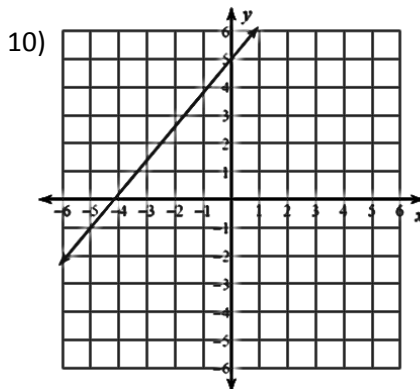
4) (5, 8) & (−4, 1)

5) (6, −3) & (−1, −3)

6) (−2, 5) & (6, −11)

Directions: Identify the slope that would create a line that is parallel to the given line.

7) $y = 3x − 4$

8) $y = -\frac{5}{4}x + 1$

9) $y = 5$
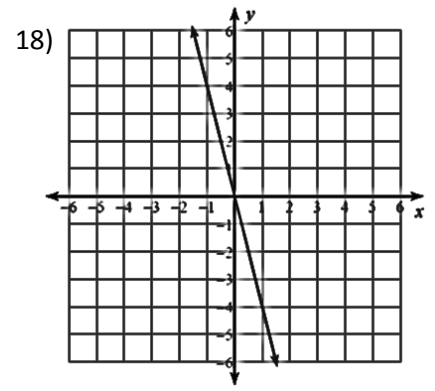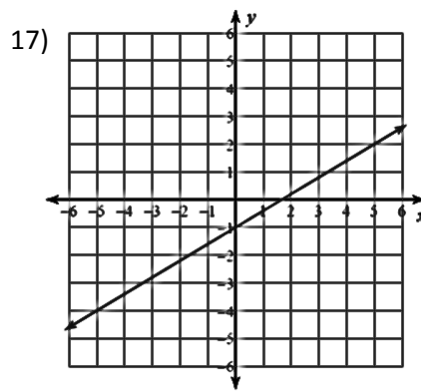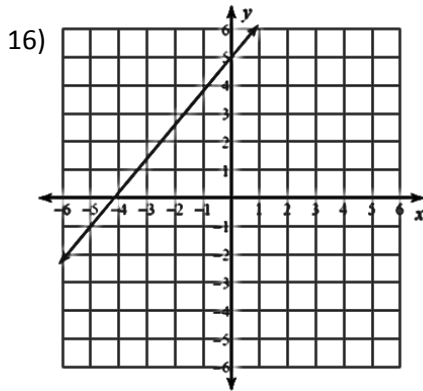
10)

11)

12)

Directions: Identify the slope that would create a line that is perpendicular to the given line.
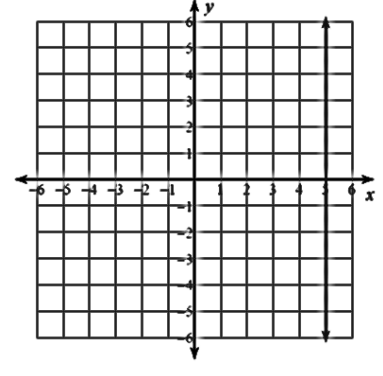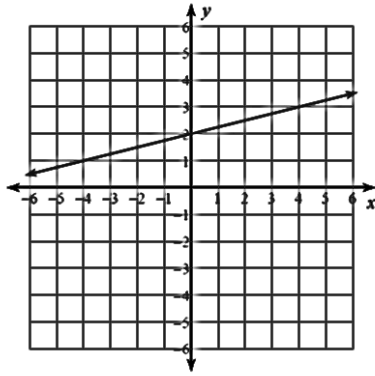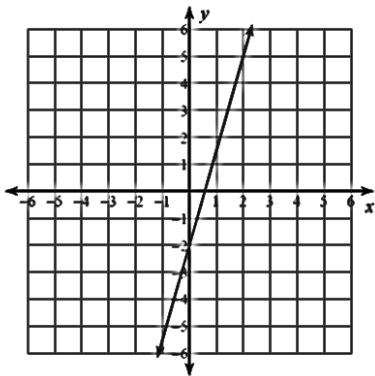
13) y = 3x – 4

14) $y = -\dfrac{5}{4}x + 1$

15) y = 5

16)

17)

18)

Directions: Graph the line that is parallel or perpendicular to the given line and passes through the given point.
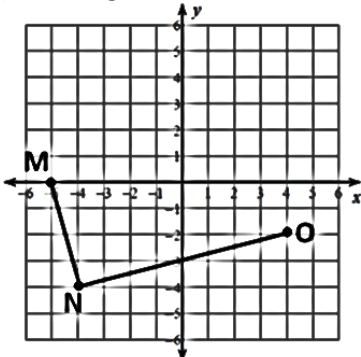
19) ∥ & passes through (0, –5)

20) ⊥ & passes through (0, 2)

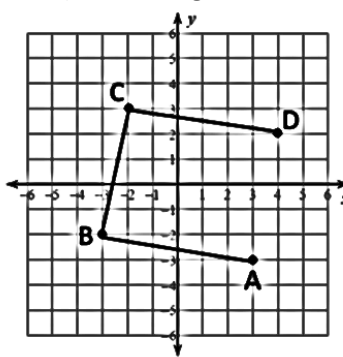21) ∥ & passes through (2, 3)

Directions: State the slope(s) needed to complete each specified shape. Then, complete the shape.

22) Rectangle MNOP

23) Parallelogram ABCD

24) Rhombus HIJK