

FIND THE SLOPE OF A LINE GIVEN TWO POINTS

➤ Find the slope of the line containing the points P_1 and P_2 .

1) $P_1(1, 3), P_2(3, 1)$

2) $P_1(2, 3), P_2(5, 1)$

3) $P_1(-1, 4), P_2(2, 5)$

4) $P_1(0, 3), P_2(4, 0)$

5) $P_1(-2, 0), P_2(0, 3)$

6) $P_1(2, 4), P_2(2, -2)$

7) $P_1(3, 4), P_2(0, 4)$

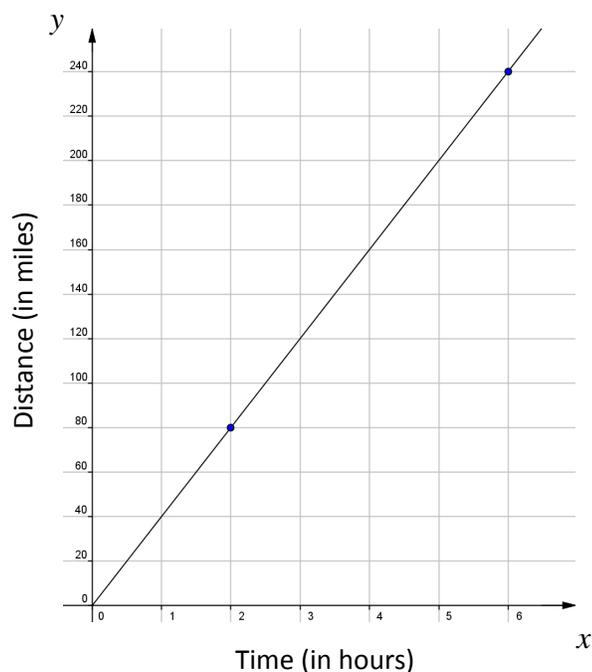
8) $P_1(0.5, 3), P_2(0.25, 1)$

9) $P_1(0, 150), P_2(30, 0)$

10) The graph on the bottom right shows the relationship between the distance traveled by a motorist and the time of travel. Find the slope of the line between the two points shown on the graph. Write a sentence that states the meaning of the slope.

Slope $m =$

Meaning of the slope m : _____



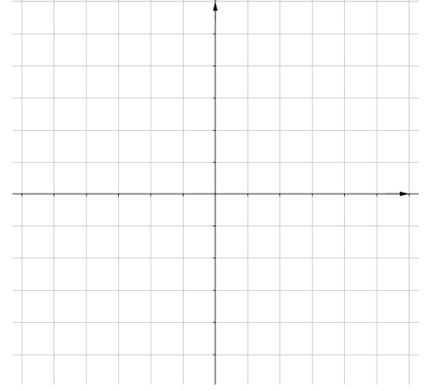
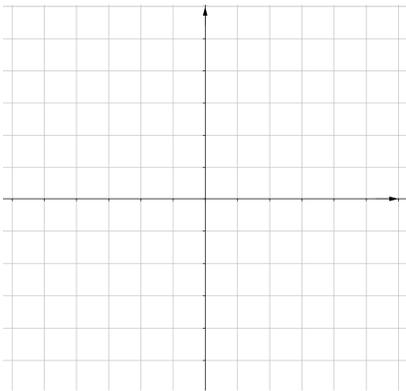
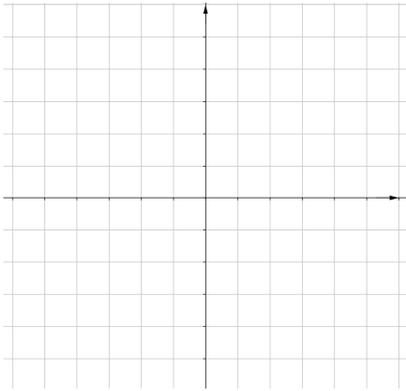
GRAPH A LINE GIVEN A POINT AND THE SLOPE

➤ Graph by using the slope and the y-intercept.

11) $y = \frac{1}{2}x + 2$

12) $y = -\frac{3}{2}x$

13) $3x + 2y = 8$



14) Graph the line that passes through the point $(-1, -3)$ and has slope $\frac{4}{3}$.

15) Graph the line that passes through the point $(-3, 0)$ and has slope -3 .

