

1. Determine an equation of the line satisfying the given conditions:

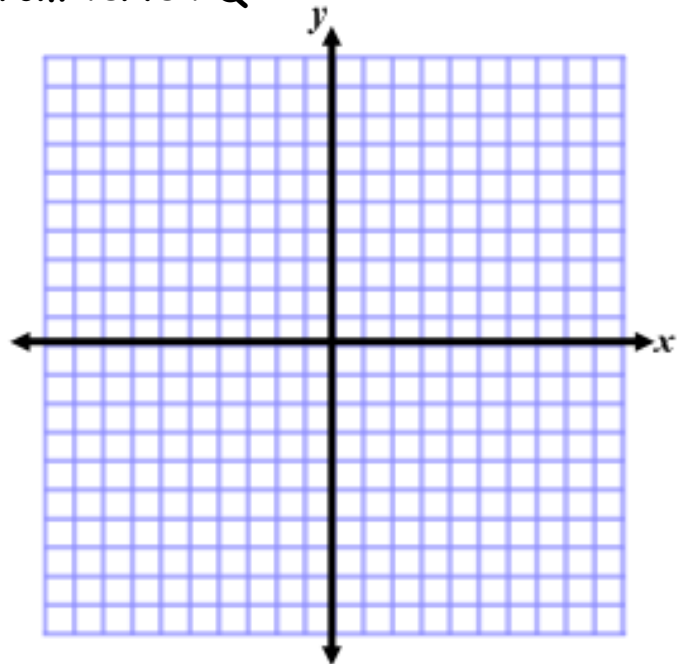
- through  $(-5, 1)$  and having a slope of  $\frac{1}{2}$
- through  $(-6, 2)$  and  $(5, -3)$
- through  $(1, 6)$  and parallel to  $3x + y = 4$
- containing  $(-5, 0)$  and perpendicular to  $-2x - y + 3 = 0$
- having an  $x$ -intercept of 4 and a  $y$ -intercept of  $-3$ .
- having a slope of 2 and an  $x$ -intercept of 5
- having a  $y$ -intercept of 2 and a slope of  $\frac{1}{2}$

2. Given that  $\triangle PQR$  has the coordinates:  $P(-2, -5)$ ;  $Q(-1, 6)$ ;  $R(5, -6)$ , determine...

- the equation of the right bisector for  $PQ$
- the equation of the altitude drawn from vertex  $R$
- the equation of the median drawn from vertex  $Q$

3. Solve by graphing:

$$\begin{aligned}x + y &= 4 \\x - 2y &= 10\end{aligned}$$



4. Solve by substitution:

$$\begin{aligned}3x + 7 &= 2 \\2x + 5y &= 23\end{aligned}$$

5. Solve by elimination:

$$\begin{aligned}2x + 5y &= 19 \\3x - y &= 3\end{aligned}$$