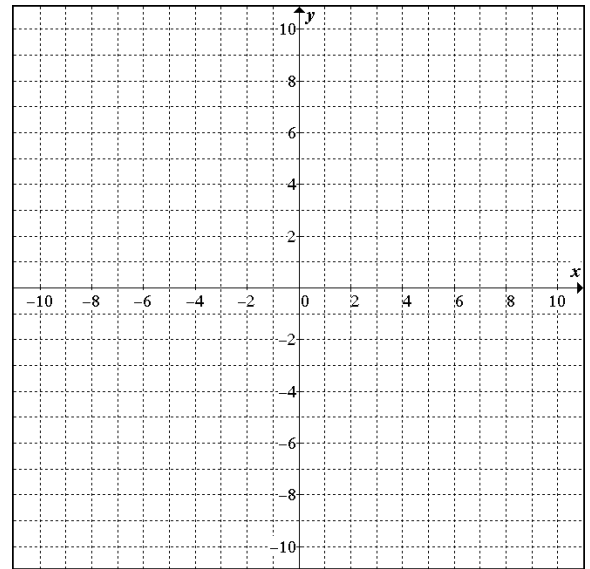


- Determine the slopes of the line segments joining the following pairs of points:
 - A(1,-1) and B(-3,3)
 - C(4,-1) and D(4,-6)
- Calculate the slopes of the line segments joining P(0,0) to Q(5,-6) and R(3,0) to S(-2,5) and determine if they are parallel.
 - Calculate the slopes of the 3 sides of $\triangle ABC$ given the points A(-3,1), B(-1,5), C(5,2) and determine if $\triangle ABC$ is a right triangle.
- Sketch all three lines on the same Cartesian plane, using the method indicated.
 - $y = 3x - 5$ using table of values
 - $y = \frac{2}{3}x + 1$ using slope-intercept
 - $2x + 3y - 6 = 0$ using x and y-intercepts
- Determine the equations of the following lines. Practice proper solutions.
 - through the points A(2, 4) and B(1,5)
 - through the point A(-1, 2) with a slope of $-\frac{1}{3}$
 - through the point A(3, 2) and parallel to the line $y = 2x - 7$
 - through the point A(-1, 5) and perpendicular to the line $y = 4x + 1$
 - with a y-intercept of 5 and passing through P(2, 3)
 - with an x-intercept of 5 and passing through P(2, 3)
- Determine the equation of the line with y-intercept of -2 that is:
 - parallel to $3x - y - 5 = 0$
 - perpendicular to $2x + y + 4 = 0$
- Determine the intersection of the following pair of lines: $2x - 3y = 5$ and $y = 3x + 3$.
- If the point $P(-3,7)$ lies on the line $2x + ky - 8 = 0$, determine the value of 'k'.



Answers:

- 1
 - Does not exist
- they are not parallel
 - it is a right triangle
- $y = -x + 6$
 - $y = -\frac{1}{3}x + \frac{5}{3}$
 - $y = 2x - 4$
 - $y = -\frac{1}{4}x + \frac{19}{4}$
 - $y = -x + 5$
 - $y = -x + 5$
- $y = 3x - 2$
 - $y = \frac{1}{2}x - 2$
 - (-2,-3)
 - 2