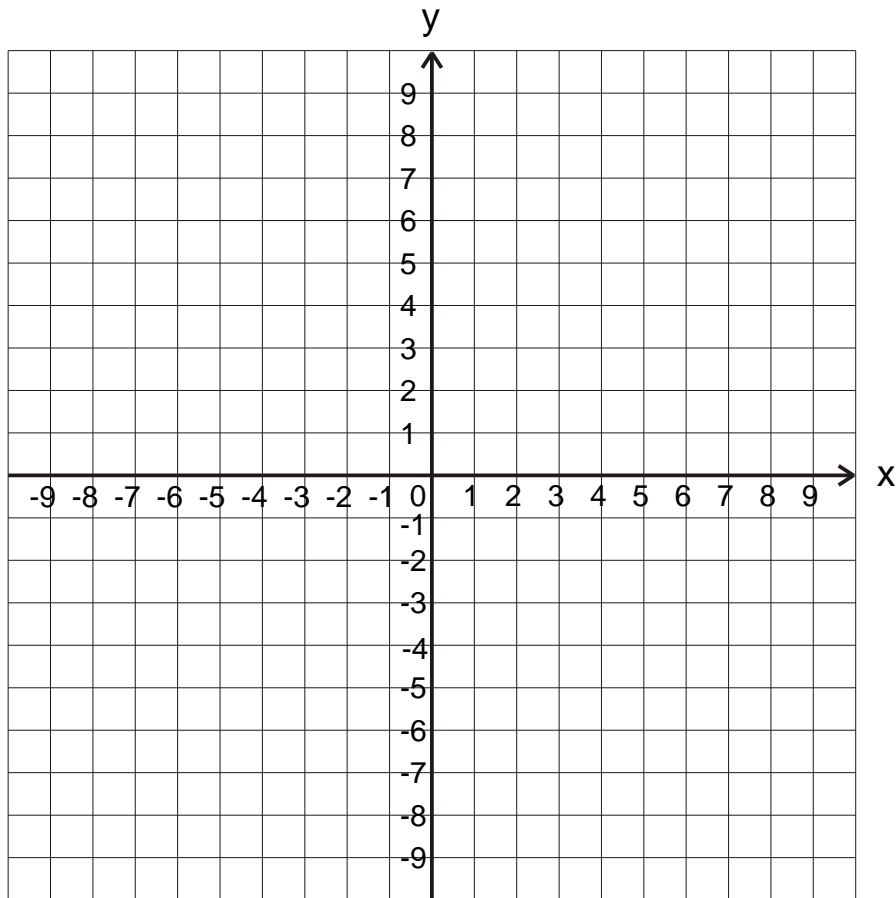


Performance Task - Graphing to find the vertices of a triangle

1. The equations of the three sides of a triangle are:

$$y = 2x - 4, \quad y = -\frac{1}{2}x + 6 \text{ and } y = -3x + 1.$$

Graph these lines of the grid below and determine the coordinates of the vertices of the triangle.



The coordinates of the vertices of the triangle are: _____ , _____ , _____ .

Performance Task - Math Contest Question

The area of the shaded region is 12 square units.

1. What is the slope of the line through AB?
2. What is the coordinate of point B?

Show using both graphical and algebraic methods.

