

Using matrices, find the equation of the line given 2 points on it in the form

$$y = mx + b$$

Find the equation of a line passing through the given points

1. (5, 2) (4, -8)

2. (-3, -5) (-6, 4)

3. (-3, -4) (-2, 4)

4. (4, 3) (-4, 5)

5. (-3, -1) (2, 4)

Determine whether the following points are collinear?

6. (5, 2) (3, 7) (4, -8)

7. (4, 5) (-4, -9) (0, -4)

8. (-1, 7) (2, -8) (-2, 12)

9. (-3, 0) (0, 3) (6, 6)

10. (-2, -1) (0, 2) (2, 5)