28 November 2022

6.4 Classwork: Point-slope form of a linear equation

Point-slope form: $(y - y_1) = m(x - x_1)$

1. Write the linear equation y - 1 = 2(x - 3) in the form y = mx + c.

2. A line has a gradient (slope) of $\frac{3}{4}$ and passes through the point (8, 3). Find the equation of the line in the form y = mx + b.

- 3. Find the equation of the line through the points (1,3) and (5,4).
- 4. A line has a gradient (slope) of $\frac{3}{4}$ and passes through the point (8, 3). Find the equation of the line in the form y = mx + b.

5. A line has a gradient (slope) of $\frac{2}{3}$ and passes through the point (9, 3). Find the equation of the line in the form y = mx + b.

6. A line has a gradient (slope) of $\frac{4}{3}$ and passes through the point (9,13). Find the equation of the line in the form y = mx + b.