

Find an equation

line $\frac{y-1}{x-2} = \frac{2-1}{3-2}$

of the line passing through the point (2, 1) and perpendicular to the line $y = 2x - 1$

$y - 1 = m(x - 2)$
 $2x - 1 = 0 \Rightarrow x = \frac{1}{2}$

$\frac{y-1}{x-2} = -\frac{1}{2}$
 $y - 1 = -\frac{1}{2}(x - 2)$
 $y - 1 = -\frac{1}{2}x + 1$
 $y = -\frac{1}{2}x + 2$

Q2. Find the

equation of the line

passing through (1, 2)

and (3, 4)

and (5, 6)

and (7, 8)

and (9, 10)

of the line passing through the point (1, 2) and (3, 4) and perpendicular to the line $y = 2x - 1$

$\frac{y-2}{x-1} = \frac{4-2}{3-1} = 1$
 $y - 2 = x - 1$
 $y = x + 1$

Q3

Find the equation

$\frac{y-2}{x-1} = \frac{4-2}{3-1} = 1$
 $y - 2 = x - 1$
 $y = x + 1$

of the line

passing through (1, 2)

and (3, 4)

and (5, 6)

and (7, 8) and perpendicular to the line $y = 2x - 1$

of the line passing through the point (1, 2) and (3, 4) and perpendicular to the line $y = 2x - 1$

of the line passing through the point (1, 2) and (3, 4) and perpendicular to the line $y = 2x - 1$

Handwritten notes and calculations at the bottom of the page, including various equations and diagrams.