

Specimen P1 Q5

5. Line l_1 has equation $\sqrt{3}y - x = 0$.

(a) Line l_2 is perpendicular to l_1 . Find the gradient of l_2 .

(b) Calculate the angle l_2 makes with the positive direction of the x -axis.

Answers

(a) $m = -\sqrt{3}$

(b) $\theta = \frac{2\pi}{3}$ or 120°