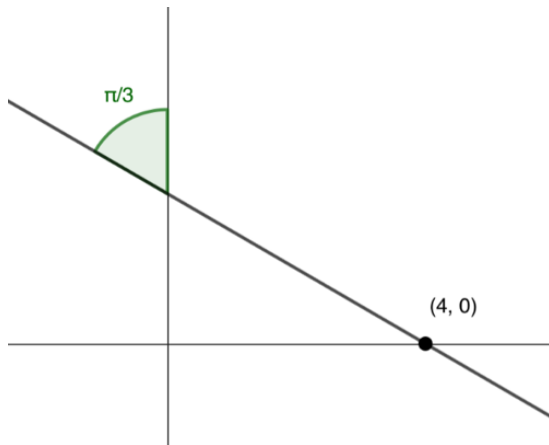


Higher Maths question bank :: Paper 1

10. Equation of a line with angles

1. A line has equation $y - \sqrt{3}x + 5 = 0$.
What angle does it form with the positive x-axis?
2. A line has equation $5y - 5x + 3 = 0$.
What angle does it form with the positive x-axis?
3. Line L makes an angle of 30° counter-clockwise to the positive x-axis, passing through the origin.
Find the equation of the line perpendicular to L through point $(0, 3)$.
4. Find the equation of the line shown.



5. A line has equation $\frac{y}{3} = 1 + \frac{1}{\sqrt{3}}x$.
What angle does it form with the positive x-axis?
6. A line has equation $\sqrt{3}y = 2 + x$.
What angle does it form with the positive x-axis?
7. Line L makes an angle of $\frac{\pi}{3}$ radians, counter-clockwise to the positive x-axis.
Find the equation of the line perpendicular to L through point $(0, -4)$.