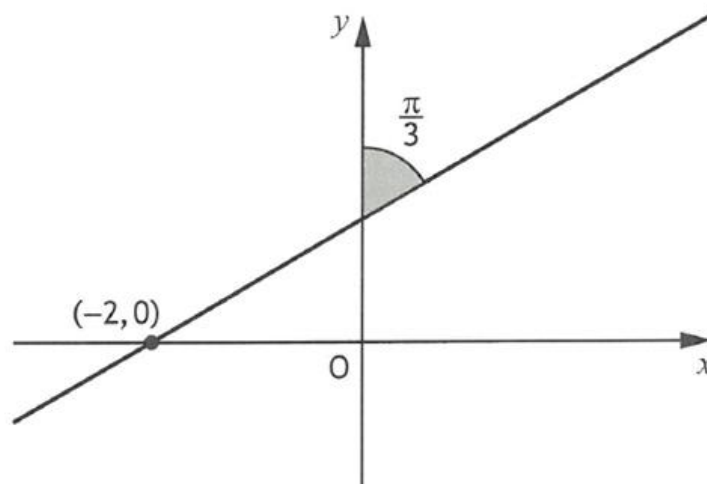


SQA Past paper questions

2022 - Paper 1 - Question 5

A line makes an angle of $\frac{\pi}{3}$ radians with the y -axis, and passes through the point $(-2, 0)$ as shown below.



Determine the equation of the line.

3

Click [here](#) for video solution. 

2018 - Paper 1 - Question 8

A line has equation $y - \sqrt{3}x + 5 = 0$.

Determine the angle this line makes with the positive direction of the x -axis. 2

Click [here](#) for video solution. 

2015 - Paper 1 - Question 9

A, B and C are points such that AB is parallel to the line with equation $y + \sqrt{3}x = 0$ and BC makes an angle of 150° with the positive direction of the x -axis.

Are the points A, B and C collinear?

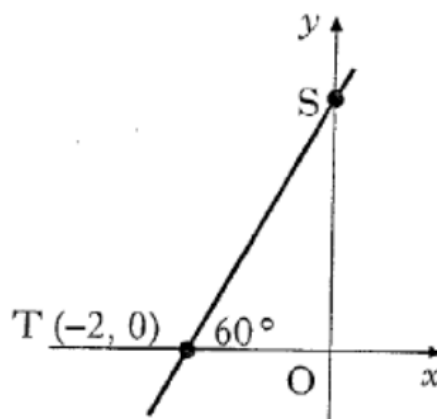
3

Click [here](#) for video solution. 

2005 - Paper 1 - Question 1

Find the equation of the line ST, where T is the point $(-2, 0)$ and angle STO is 60° .

3



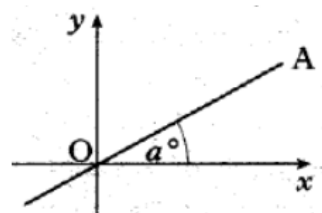
Click [here](#) for video solution. 

2004 - Paper 2 - Question 1

- (a) The diagram shows line OA with equation $x - 2y = 0$.

The angle between OA and the x-axis is a° .

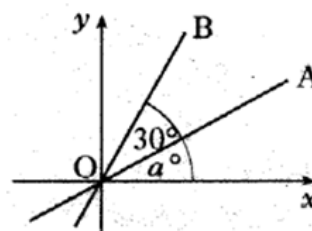
Find the value of a .



3

- (b) The second diagram shows lines OA and OB. The angle between these two lines is 30° .

Calculate the gradient of line OB correct to 1 decimal place.



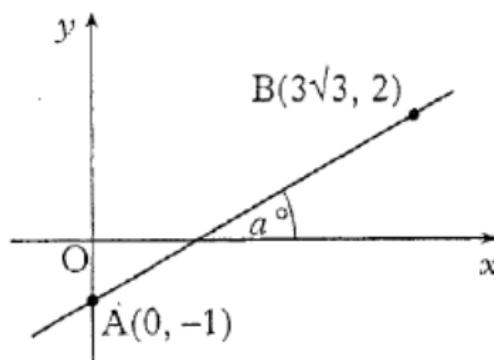
1

Click [here](#) for video solution. 

2000 - Paper 1 - Question 3

Find the size of the angle a° that the line joining the points $A(0, -1)$ and $B(3\sqrt{3}, 2)$ makes with the positive direction of the x-axis.

3



Click [here](#) for video solution. 