## Higher Maths SQA 2018 Specimen Paper 1 Question 3



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

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

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(b) Calculate the angle  $l_{\rm 2}$  makes with the positive direction of the x-axis.

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## Answers:

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

(b) 
$$\theta = \frac{2\pi}{3}$$
 or  $120^{\circ}$