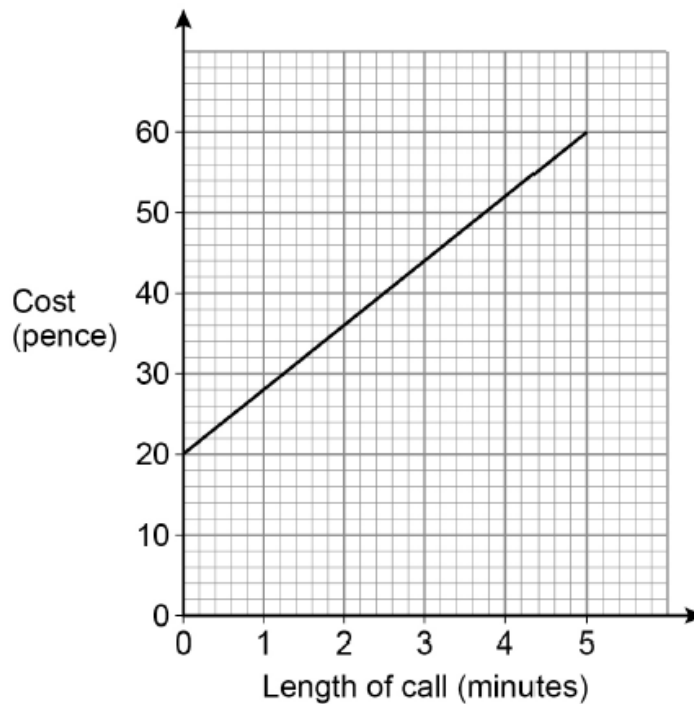


AQA - Graphs – GCSE Mathematics Paper 1**1. June/2021/Paper_1F/No.18**

The cost of making a phone call is
a fixed charge
and
a charge per minute.

The costs of phone calls up to 5 minutes are represented by the graph.



(a) Write down the fixed charge.

[1 mark]

Answer _____ pence

(b) Work out the charge per minute.

[2 marks]

Answer _____ pence

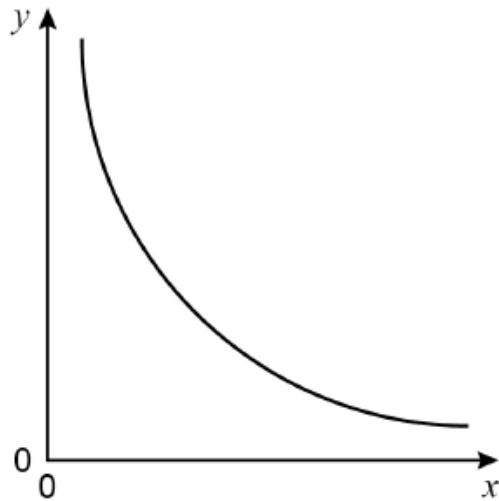
(c) Work out the cost of a phone call lasting 7 minutes.

[2 marks]

Answer _____ pence

2. June/2021/Paper_1F/No.29

Here is a sketch of a graph.



Circle the equation of the graph.

k is a constant.

[1 mark]

$$y = kx$$

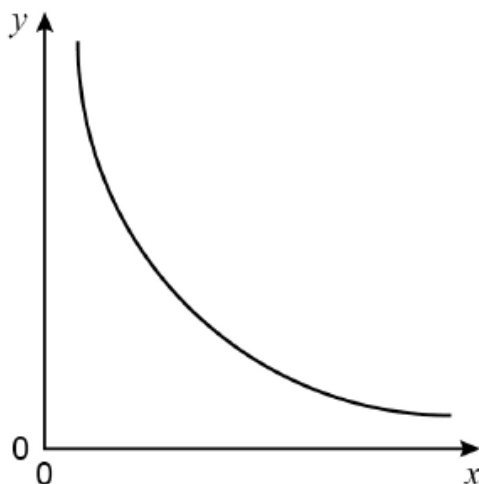
$$y = k + x$$

$$y = k - x$$

$$y = \frac{k}{x}$$

3. June/2021/Paper_1H/No.4

Here is a sketch of a graph.



Circle the equation of the graph.

k is a constant.

[1 mark]

$$y = kx$$

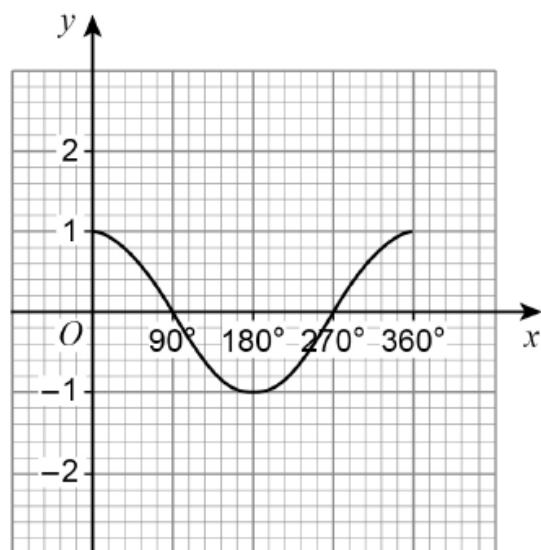
$$y = k + x$$

$$y = k - x$$

$$y = \frac{k}{x}$$

4. June/2021/Paper_1H/No.28

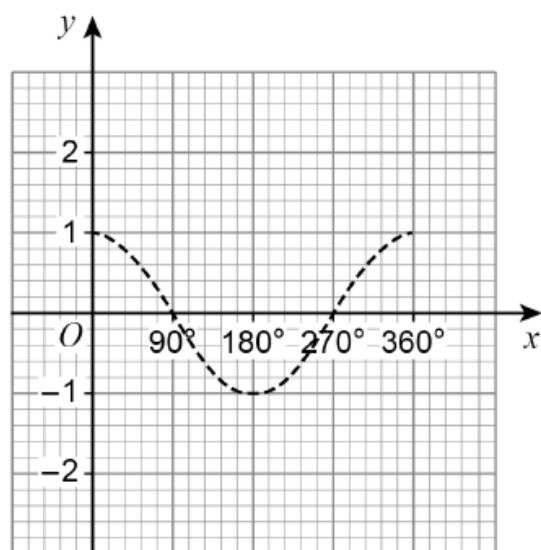
Here is the graph of $y = \cos x$ for $0^\circ \leq x \leq 360^\circ$



In parts (a) and (b) the graph of $y = \cos x$ is shown as a dashed line.

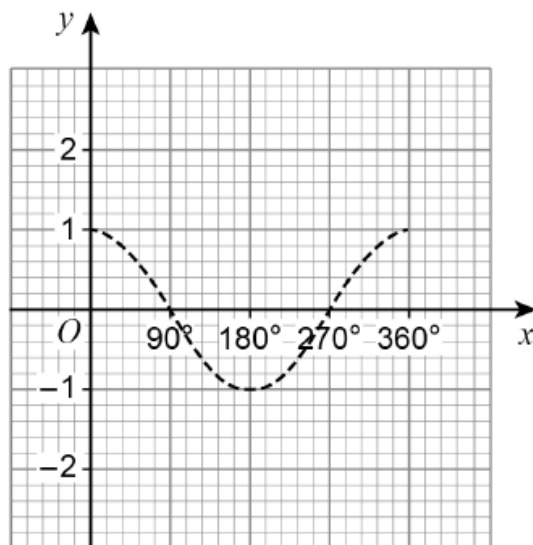
- (a) On the grid below, draw the graph of $y = \cos(x - 90^\circ)$ for $0^\circ \leq x \leq 360^\circ$

[1 mark]



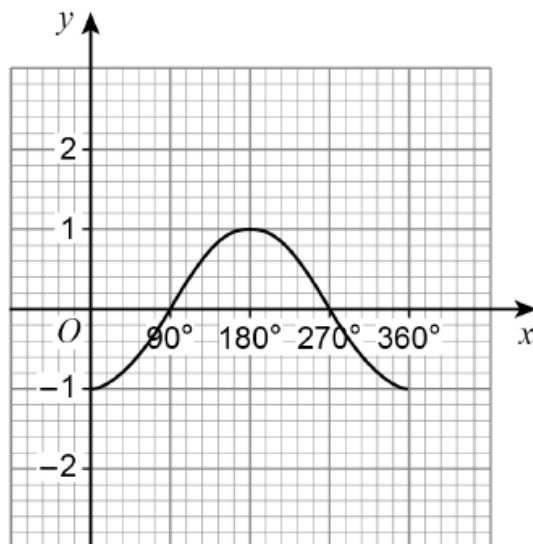
- (b) On the grid below, draw the graph of $y = 1 + \cos x$ for $0^\circ \leq x \leq 360^\circ$

[1 mark]



- (c) Rita tries to draw the graph of $y = \cos(-x)$ for $0^\circ \leq x \leq 360^\circ$

Here is her graph.



Give a reason why Rita's graph is incorrect.

[1 mark]
