Target 5 Sheet 03A

Question 1

Solve by factorising:

$$x^2 + 15 \ x + 56 = 0$$

Question 2

P has coordinates (1,0).

Q has coordinates (3, k).

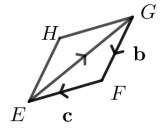
The gradient of PQ is -2.

Find the value of k.

Question 3

EFGH is a parallelogram.

Find \overrightarrow{EG} in terms of **b** and **c**



Question 4

SIB Bank pays 2.2% compound interest each year.

ALN Bank also pays compound interest, but at 5.3% for the first year and at 1% each extra year. Which bank would pay more interest on a £3200 investment over 7 years?

Target 5 Sheet 03A

Question 1

Solve by factorising:

$$x^2 + 15 \ x + 56 = 0$$

$$(x+7)(x+8) = 0$$

 $x = -7, x = -8$

Question 2

P has coordinates (1,0).

Q has coordinates (3, k).

The gradient of PQ is -2.

Find the value of k.

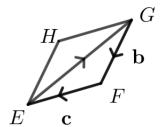
$$k = -4$$

Question 3

EFGH is a parallelogram.

Find \overrightarrow{EG} in terms of **b** and **c**

$$-\mathbf{b} - \mathbf{c}$$
 or $-\mathbf{c} - \mathbf{b}$



Question 4

SIB Bank pays 2.2% compound interest each year.

ALN Bank also pays compound interest, but at 5.3% for the first year and at 1% each extra year. Which bank would pay more interest on a £3200 investment over 7 years?