Target 5 Sheet 03C

Question 1

Solve by factorising:

$$x^2 - 6 \ x - 40 = 0$$

Question 2

P has coordinates (7, -7).

Q has coordinates (19, k).

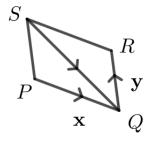
The gradient of PQ is 2.

Find the value of k.

Question 3

PQRS is a parallelogram.

Find \overrightarrow{SQ} in terms of **x** and **y**



Question 4

SIB Bank pays 3% compound interest each year.

ALN Bank also pays compound interest, but at 5.4% for the first year and at 1.7% each extra year. Which bank would pay more interest on a £2900 investment over 3 years?

Target 5 Sheet 03C

Question 1

Solve by factorising:

$$x^2 - 6 \ x - 40 = 0$$

$$(x+4)(x-10) = 0$$

 $x = -4, x = 10$

Question 2

P has coordinates (7, -7).

Q has coordinates (19, k).

The gradient of PQ is 2.

Find the value of k.

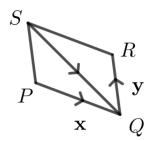
$$k = 17$$

Question 3

PQRS is a parallelogram.

Find \overrightarrow{SQ} in terms of **x** and **y**

$$x - y$$
 or $-y + x$



Question 4

SIB Bank pays 3% compound interest each year.

ALN Bank also pays compound interest, but at 5.4% for the first year and at 1.7% each extra year. Which bank would pay more interest on a £2900 investment over 3 years?