WE DO

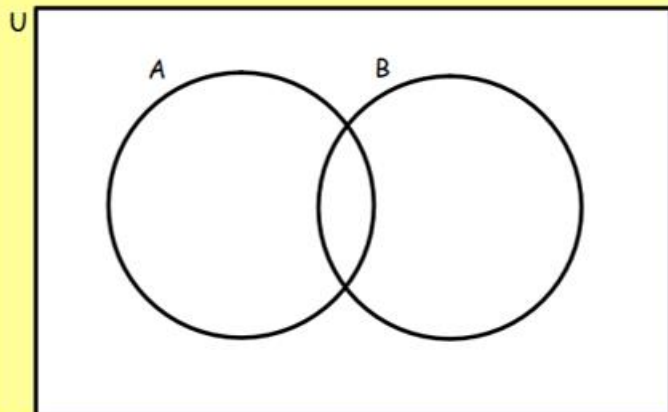**YOU DO**

Place the numbers 1-10 in a venn diagram
Set A will contain even numbers
Set B will contain multiples of 3
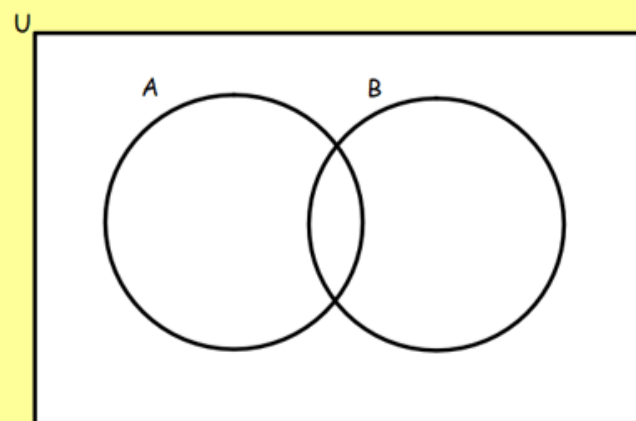
Find P(AUB)

U

A   B

Find P(A∩B)

Place the numbers 1-12 in a venn diagram
Set A will contain multiples of 4
Set B will contain factors of 12

U

A   B

1) Find the P(AUB)?

2) Find the P(A∩B)?

$$5a + 3b = 41$$
$$4a + 3b = 37$$

$$7x - 2y = 22$$
$$5x - 2y = 14$$

A delivery company has a total of 160 cars and vans.

the number of cars : the number of vans = 3 : 7

Each car and each van uses electricity or diesel or petrol.

$\frac{1}{8}$ of the cars use electricity.

25% of the cars use diesel.

The rest of the cars use petrol.

Work out the number of cars that use petrol.
You must show all your working.

A delivery company has a total of 240 cars and vans.

the number of cars : the number of vans = 7 : 3

Each car and each van uses electricity or diesel or petrol.

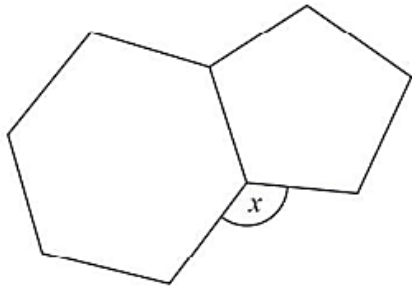$\frac{3}{8}$ of the vans use electricity.

25% of the vans use diesel.

The rest of the vans use petrol.

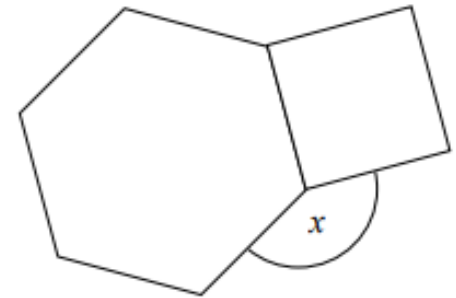Work out the number of vans that use petrol.
You must show all your working.

Here is a regular hexagon and a regular pentagon.

Work out the size of the angle marked x.
You must show all your working.

Here is a regular hexagon and a square.

Work out the size of the angle marked x.
You must show all your working.

Simplify fully $\dfrac{x^2 + 5x}{x^2 + 7x + 10}$
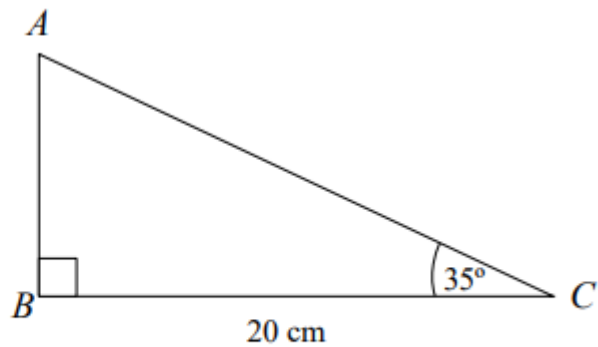
Simplify fully $\dfrac{3x^2 - 17x + 10}{x^2 - 7x + 10}$
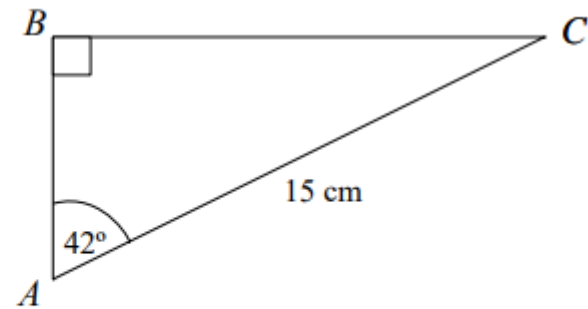
Solve $x^2 + 7x + 12 \geq 0$

Solve $5x^2 - 11x + 2 \leq 0$

A

B

35°

C

20 cm

Calculate the length *AB*.

B

C

15 cm

42°

A

Calculate the length *AB*.

Susan invests £2500 for 3 years.
The investment gets compound interest of x% per annum.

At the end of the 3 years investment is worth £2812.16.

Work out the value of x.

Ryan invests £3000 for 4 years.
The investment gets compound interest of x% per annum.

At the end of the 4 years investment is worth £3932.39.

Work out the value of x.

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The points A, B, C and D lie in order on a straight line.

$$AB:BD = 2:5 \quad \text{and} \quad AC:CD = 4:7$$

Find $AB:BC:CD$

The points A, B, C and D lie in order on a straight line.

$$AB:BD = 3:5 \quad \text{and} \quad AC:CD = 5:6$$

Find $AB:BC:CD$