1 Sunita is *x* years old.

Beth is one year younger than Sunita.

Joel is double Sunita's age.

The mean of their ages is 5

How old is Joel?

[5 marks]

$$x + \chi - 1 + 2\chi = 15 \quad (1)$$

Answer

2
$$5x^3 + ax^2 + bx + c \equiv kx^3 + (2-k)x^2 + (a^2 - 1)x + \frac{b}{2}$$

Work out the values of a, b and c.

[3 marks]

$$n^3: 5=k$$

$$\chi^2$$
: $\alpha = 2-k$

$$\chi^{2}$$
: $\alpha = 2 - k$
 $a = 2 - 5 = -3$
 χ^{2} : $a = 2 - k$
 χ^{2} : $a = 2 - k$
 χ^{2} : $a = 2 - k$
 χ^{2} : $a = 2 - k$

$$\chi$$
: $b = a^2 - 1$

$$C = \frac{b}{2} = \frac{8}{2} = 4$$

$$a =$$
____8 $c =$ ___4