



Factorise completely

$$x^3 - 25x \quad x(x^2 - 25)$$

$$x(x-5)(x+5)$$

The square of w is 5Write down the value of w^5

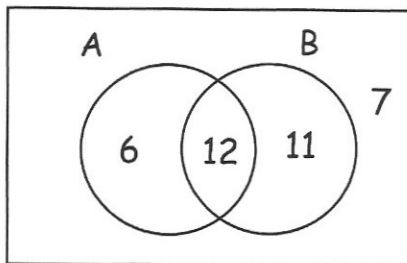
$$w^2 = 5$$

$$w = \pm\sqrt{5}$$

$$\frac{\sqrt{5} \times \sqrt{5} \times \sqrt{5} \times \sqrt{5} \times \sqrt{5}}{5 \quad 5}$$

$$w^5 = \pm 25\sqrt{5}$$

$$w^5 = 25\sqrt{5} \quad \text{or} \quad -25\sqrt{5}$$

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Find the probability of B given A.

$$\frac{12}{18} = \frac{2}{3}$$

There are 9 students in Class A and 16 students in Class B.

Class A and Class B sat a test.

The mean score for the 9 students in

Class A was y

The mean score for all 25 students was

$$72 \quad 25 \times 72 = 1800$$

Find an expression, in terms of y , for the mean score for the students in Class B.

$$\frac{1800 - 9y}{16}$$

A curve has equation $y = ax^2 + bx + c$

The curve crosses the x-axis at (3, 0) and (4, 0)

The curve crosses the y-axis at (0, 12)

Find the values of a , b and c .

$$y = (x-3)(x-4)$$

$$y = x^2 - 7x + 12$$

$$a = 1 \quad b = -7 \quad c = 12$$