

6th August

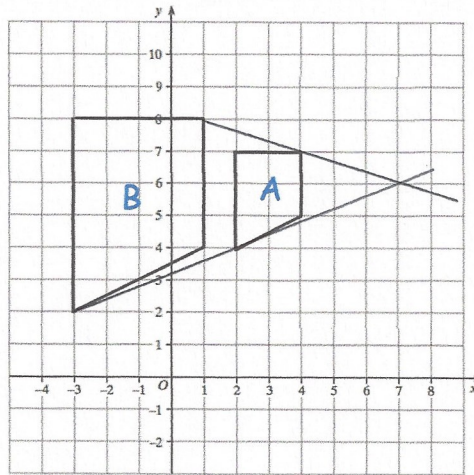


Corbettmaths

Solve $x^2 + x - 6 = 0$

$$(x+3)(x-2) = 0$$

$$x = -3 \text{ or } x = 2$$



Describe fully the single transformation that maps shape B onto shape A.

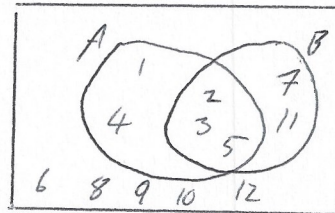
Enlargement with scale factor $\frac{1}{2}$, centre $(7, 6)$

$\xi = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12\}$

$A = \{\text{numbers less than } 6\}$ (2, 3, 4, 5)

$B = \{\text{prime numbers}\}$ (2, 3, 5, 7, 11)

Draw a Venn diagram for this information.



Calculate the volume of the sphere.
Give your answer to 1 decimal place.

$$\frac{4}{3} \times \pi \times 11^3$$

$$= 5575.3 \text{ cm}^3$$