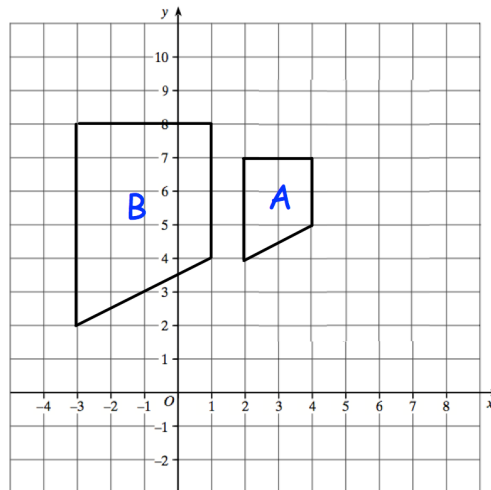


**6th August**

Corbettmaths

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



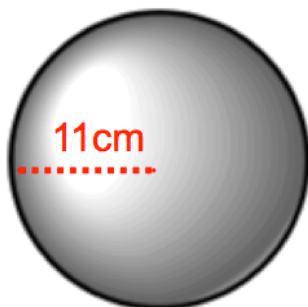
Describe fully the single transformation that maps shape B onto shape A.

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

$A = \{\text{numbers less than } 6\}$

$B = \{\text{prime numbers}\}$

Draw a Venn diagram for this information.

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