

M8 = 28 days to go!

Guess & Check

4 Use trial and improvement to solve the equation

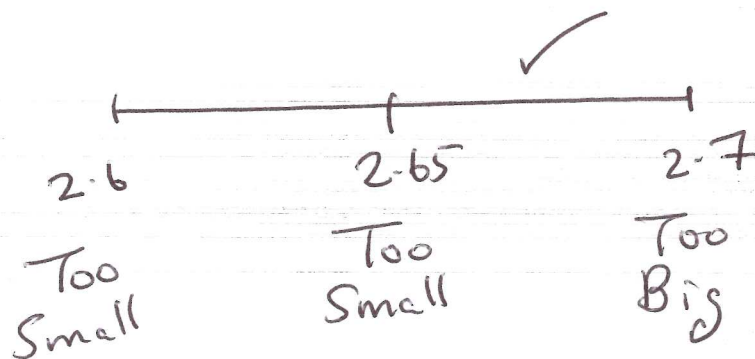
$$x^3 - 3x = 11$$

Give your answer correct to one decimal place.

Target

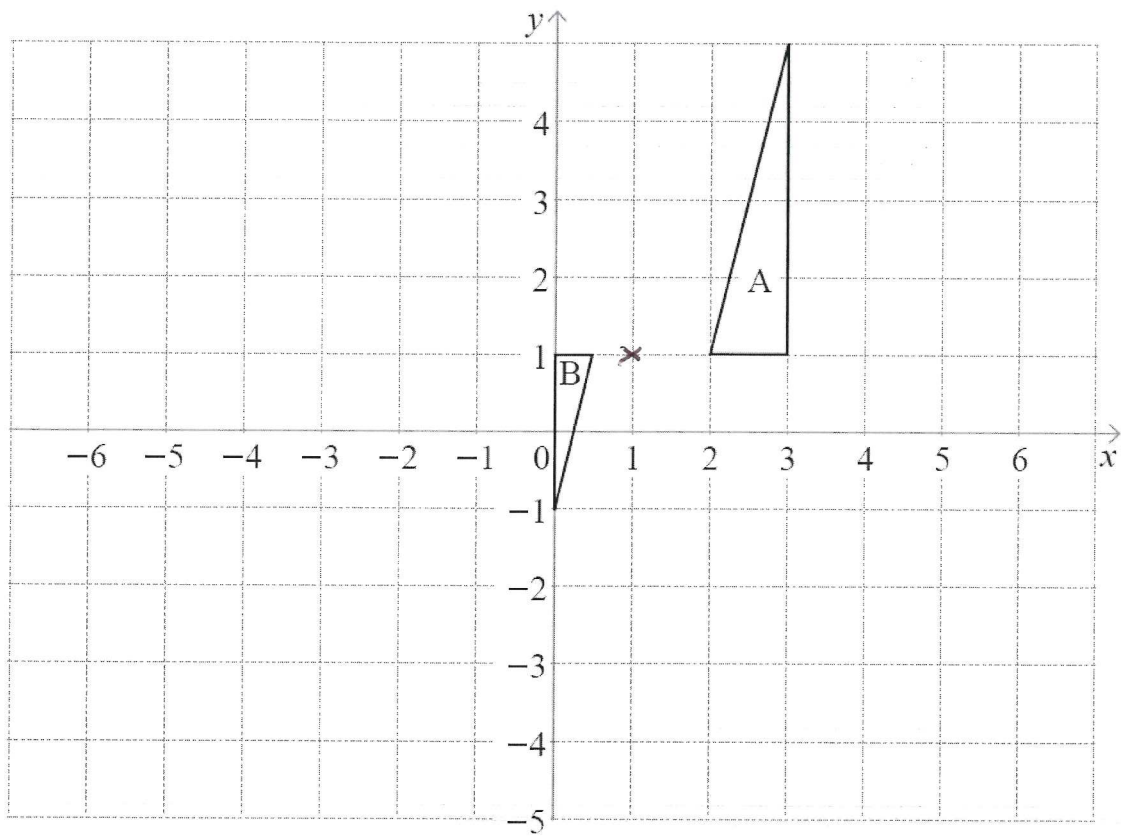
You must show your working

x	$x^3 - 3x$	
3	$3^3 - 3 \times 3 = 18$	Too Big
2	$2^3 - 3 \times 2 = 2$	Too Small
2.5	$2.5^3 - 3 \times 2.5 = 8.125$	Too Small
2.6	$2.6^3 - 3 \times 2.6 = 9.776$	Too Small
2.7	$2.7^3 - 3 \times 2.7 = 11.583$	Too Big
2.65	$2.65^3 - 3 \times 2.65 = 10.460$	Too Small



Ans 2.7

10



Describe fully the **single** transformation that maps triangle A to triangle B.

Answer Enlarge Scale Factor $-\frac{1}{2}$
centre (1,1) [3]