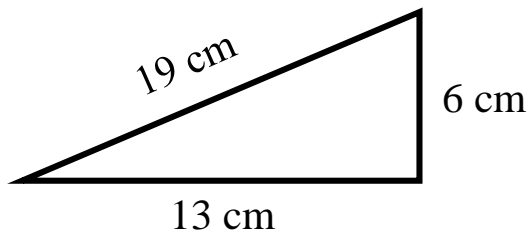


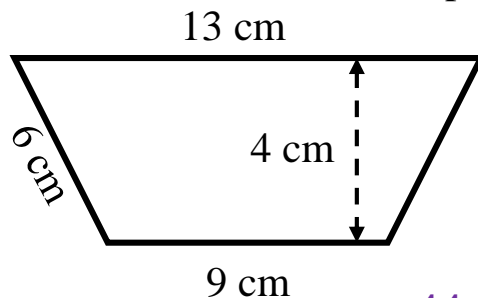
1. Calculate the area of this shape.



39cm^2

(2 marks)

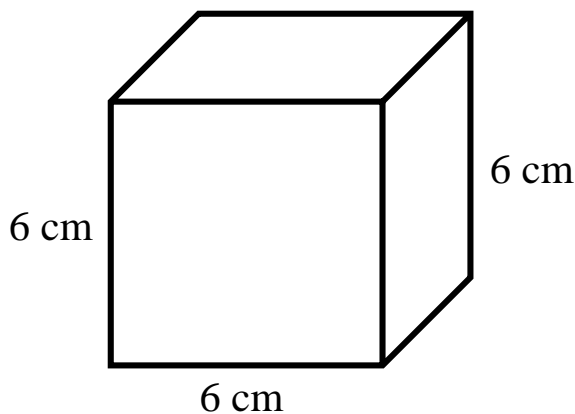
2. Calculate the area of this shape.



44cm^2

(2 marks)

3. Calculate the volume and surface area of the cube below.

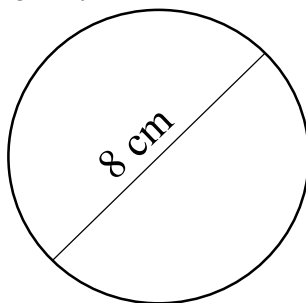


Volume = 216cm^3

Surface area = 216cm^2
(5 marks)

3. Calculate the area of this circle.

Leave your answer in terms of π .



16π

(2 marks)

4. Is it possible to make a right angle triangle with sides of 4cm, 5cm and 3cm.

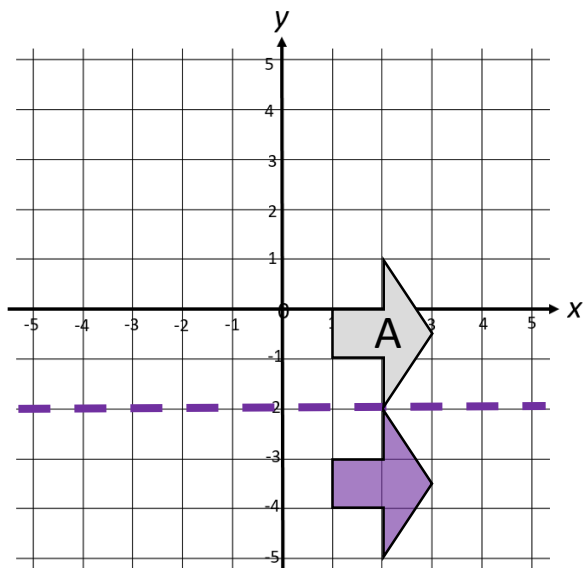
$3^2 + 4^2 = 5^2$

$9 + 16 = 25$

Yes

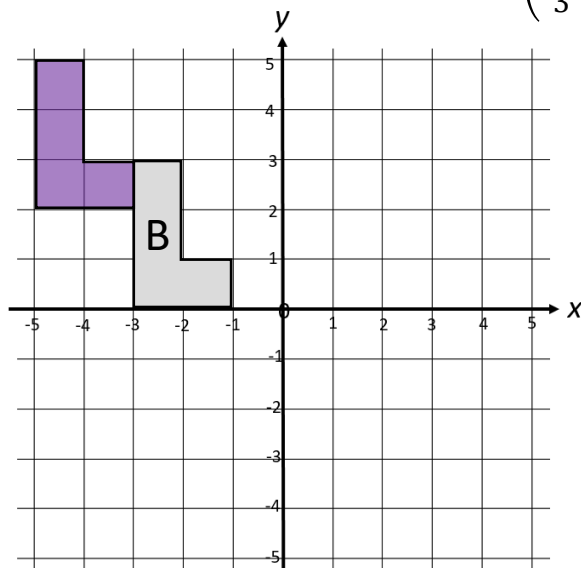
(2 marks)

5. Reflect shape A in the line $y = -2$



(2 marks)

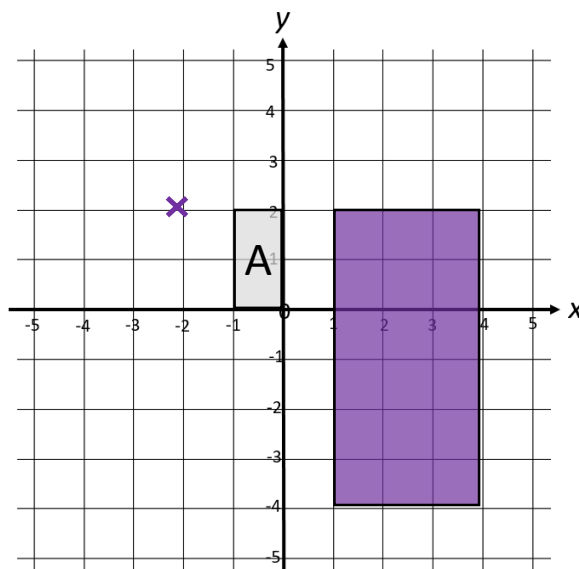
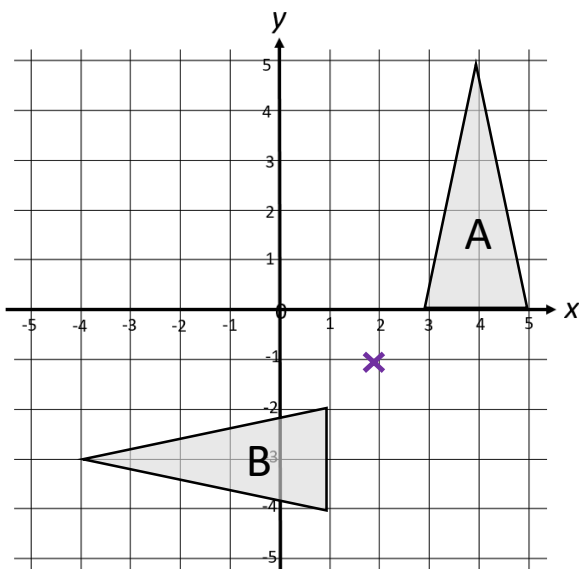
6. Translate shape B by the vector $\begin{pmatrix} -2 \\ 3 \end{pmatrix}$



(2 marks)

7. Describe the single transformation from shape A to B.

8. Enlarge shape A by scale factor 3 from the center $(-2, 2)$



Rotation

90° Anti clockwise

Centre (2, -1)

(2 marks)

(2 marks)

Score =