

3.

Cone **A** and cone **B** are mathematically similar.

The ratio of the volume of cone **A** to the volume of cone **B** is $27 : 8$

The surface area of cone **A** is 297 cm^2

Show that the surface area of cone **B** is 132 cm^2

4.

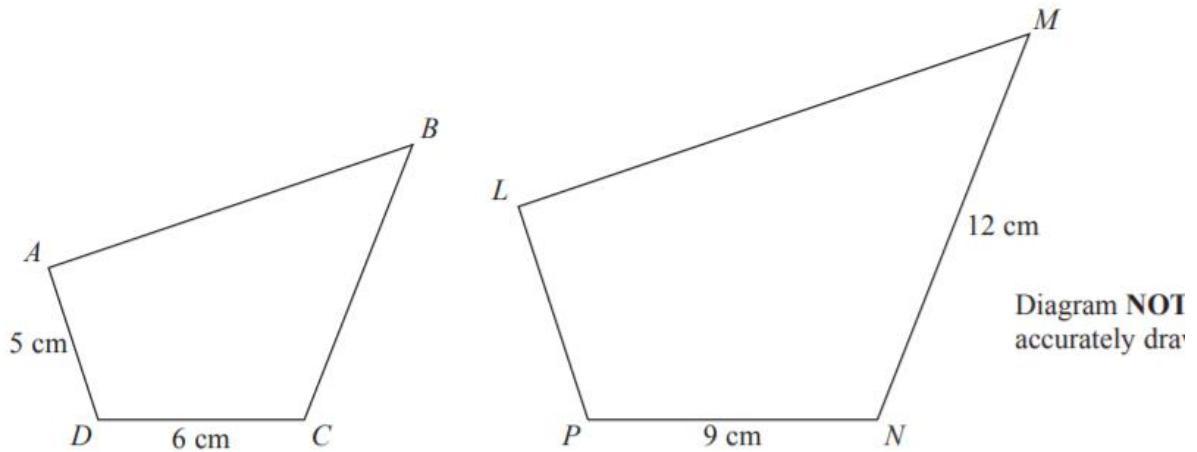
Solid **A** and solid **B** are mathematically similar.

The ratio of the surface area of solid **A** to the surface area of solid **B** is $4 : 9$

The volume of solid **B** is 405 cm^3 .

Show that the volume of solid **A** is 120 cm^3 .

5.



Quadrilaterals $ABCD$ and $LMNP$ are mathematically similar.

- Angle $A =$ angle L
- Angle $B =$ angle M
- Angle $C =$ angle N
- Angle $D =$ angle P

(a) Work out the length of LP .

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(2)

(b) Work out the length of BC .