Area and Volume *Revision*

Identify the shapes, state the area formula and find the pink area:

Find the area shaded.

4 cm

9 cm

$r = 8.9$ cm
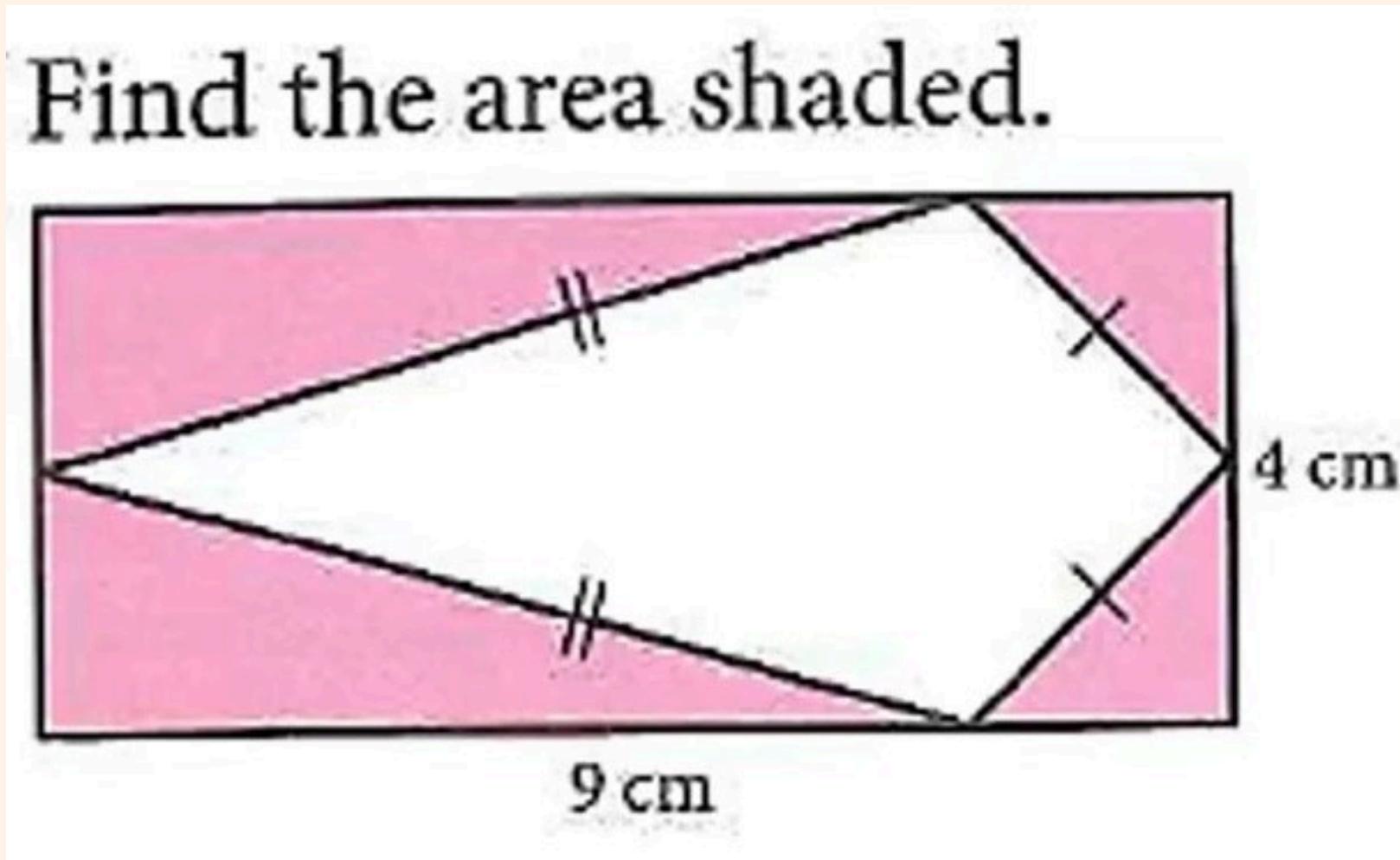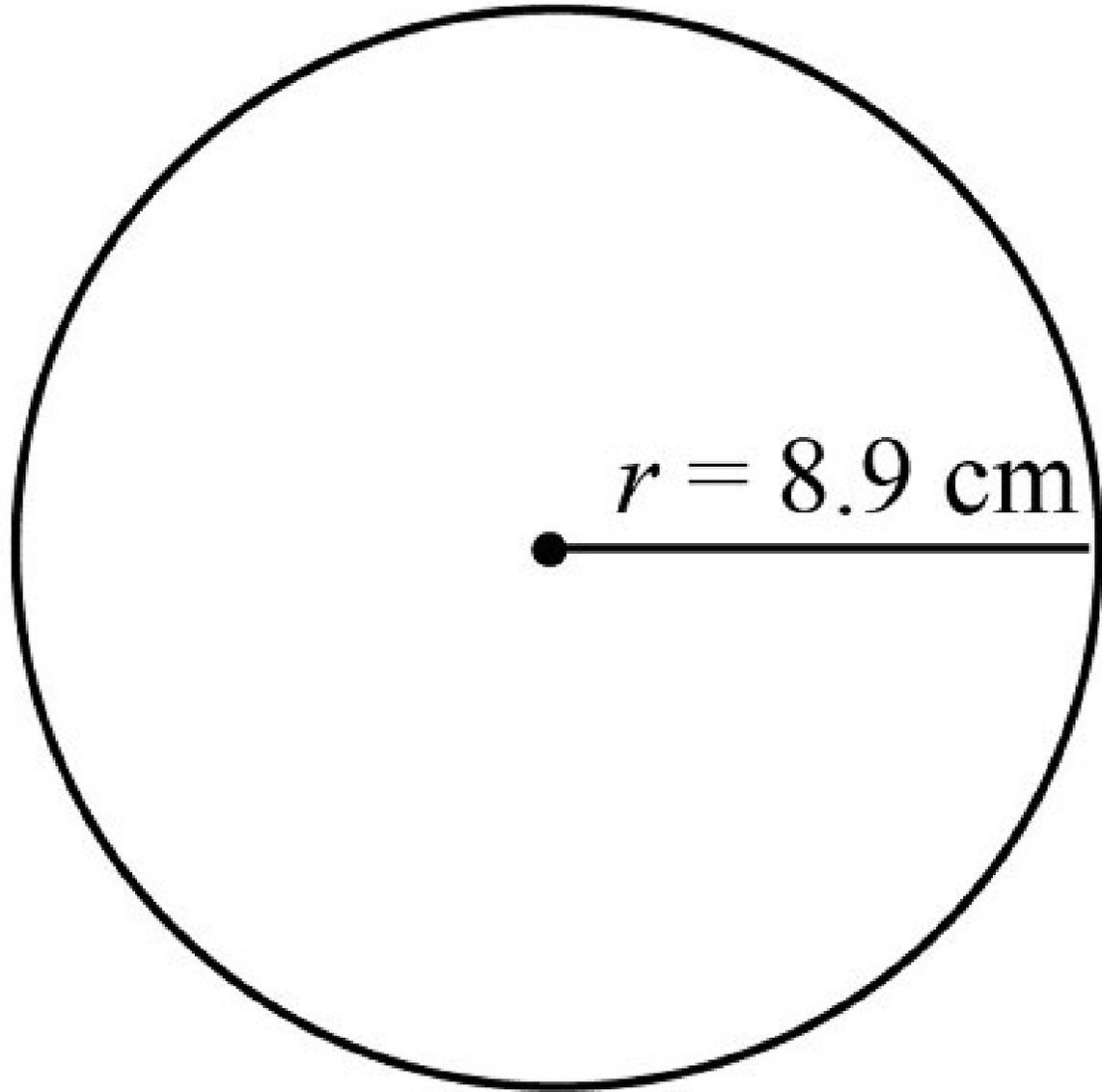
Find the area/circumference

Circumference $= 2 \times \pi \times r$

Area of circle $= \pi \times r^2$

V = Ah

Find the volume of the prism	Find the volume of the cylinder
Triangular cross-section	
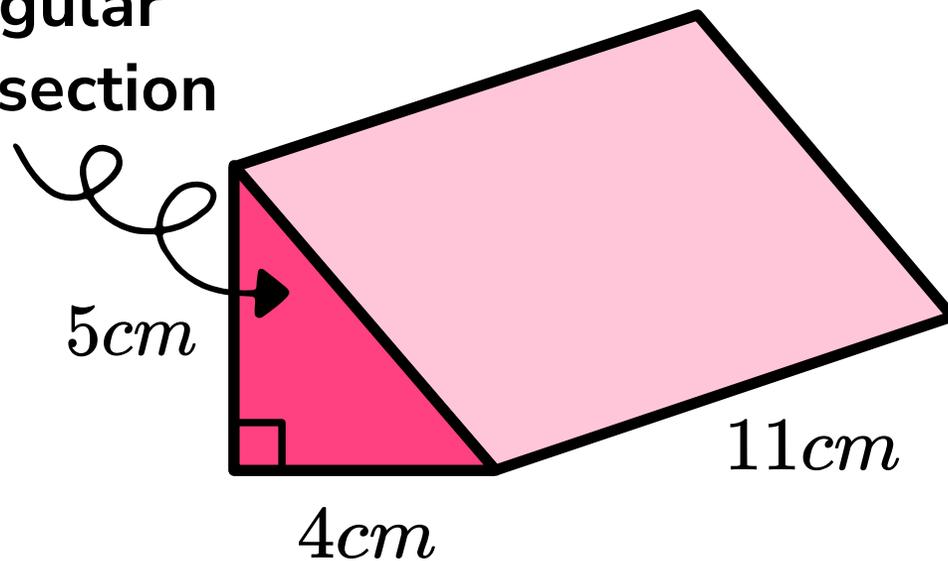
Triangular cross-section

$5cm$

$4cm$

$11cm$

20 mm

10 mm
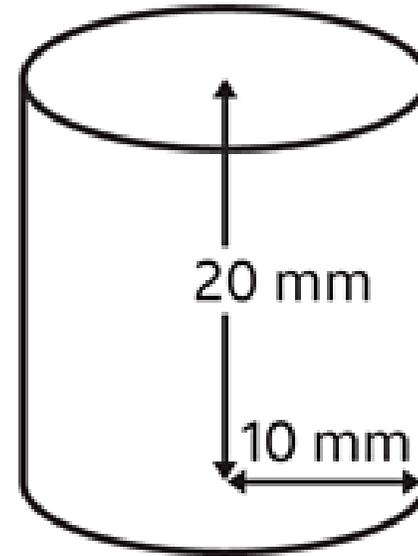
Formulas: Area

Shape	Formula	Pronumerals
Triangle	$A = \frac{1}{2} \times b \times h$	*b is base, h is perpendicular height*
Square / Rectangle	$A = l \times b$	*b is base, l is length*
Parallelogram	$A = b \times h$	*b is base, h is perpendicular height*
Trapezium	$A = \frac{1}{2} \times h \times (a + b)$	*h is perpendicular height, a and b are lengths of the parallel sides*
Rhombus / Kite	$A = \frac{x \times y}{2}$	*x and y are lengths of diagonals*
Circle	$A = \pi \times r^2$	*r is radius*
Sector	$A = \frac{\theta}{360°} \times \pi \times r^2$	*r is radius, θ is number of degree in central angle*

Formula: Volume

Prism or Cylinder	$V = Ah$	*A is area of base, h is perpendicular height*