

A Cartesian plane: Sketching parabolas

Skill 5.9

Sketch these parabolas by finding the x and y intercepts as well as completing the square to find the turning point.

1 $y = x^2 + 4x - 5$

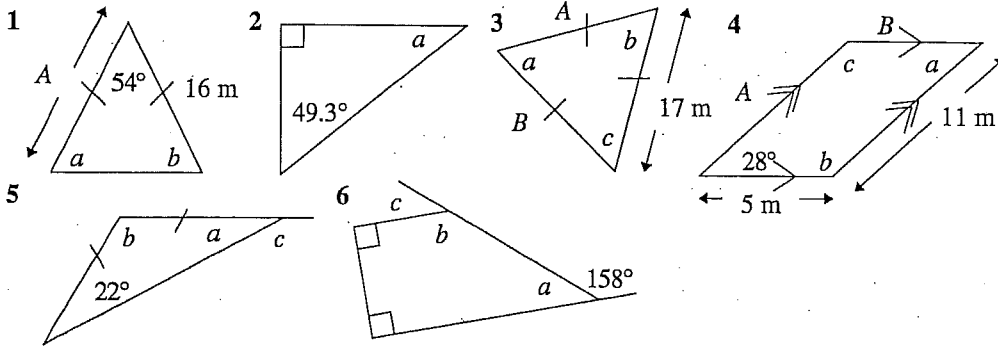
2 $y = x^2 + 2x - 15$

3 $y = x^2 - 2x - 8$

B Geometry: Angles in triangles and quadrilaterals

Skill 6.2

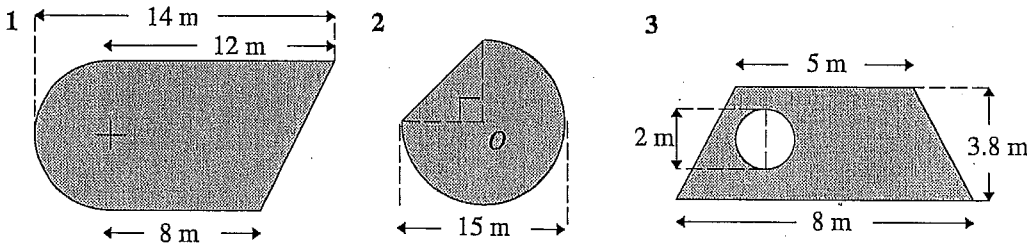
Find the labelled values:



C Measurement: Composite areas

Skill 7.4

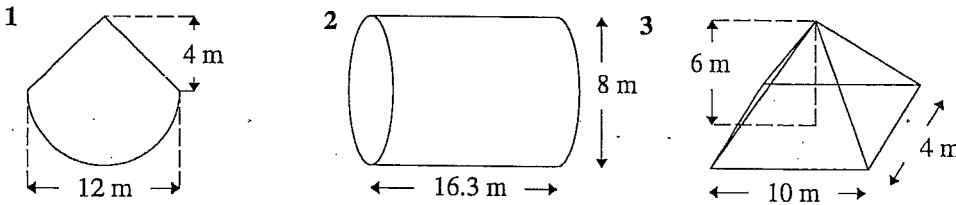
Find the shaded area:



D Measurement: Making accurate nets of solids

Skill 7.5

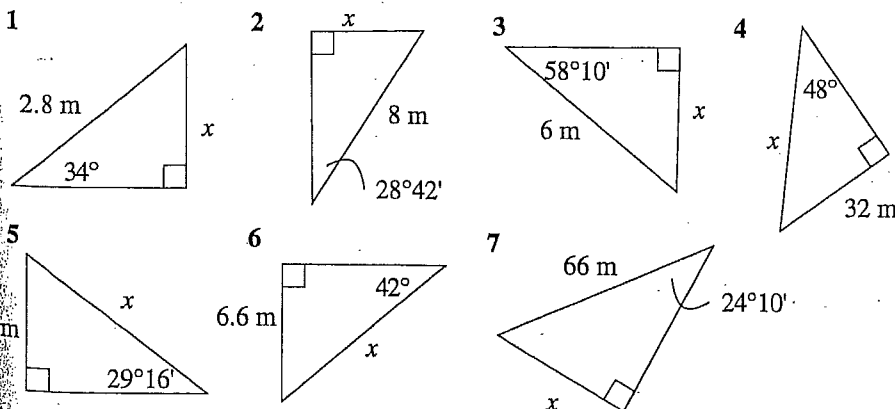
What nets are required to make these solids:



E Trigonometry: Using sin to find the sides in a right-angled triangle

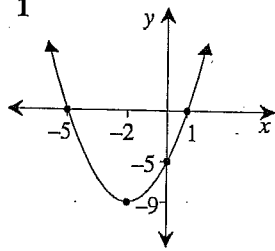
Skill 8.1

Find the missing sides:

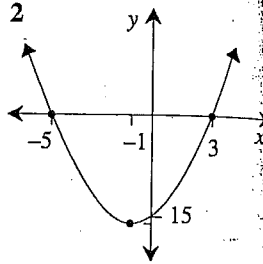


Worksheet 23

A 1

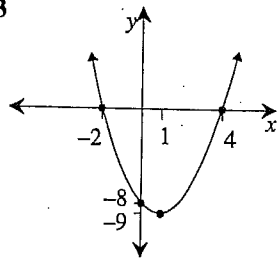


x int 1, -5
y int -5
T.P. (-2, 9)



x int 3, -5
y int -15
T.P. (-1, -16)

3



x int -2, 4
y int -8
T.P. (1, -9)

B 1 A = 16 m 2 a = 40.7°

a = b = 63°

3 a = b = c = 60° 4 a = 28°

A = B = 17 m

b = c = 152°

A = 11 m

B = 5 m

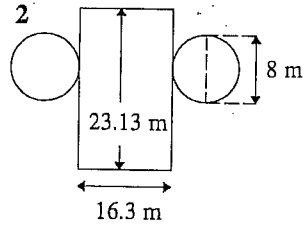
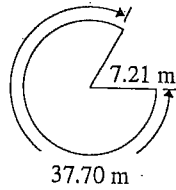
5 a = 22° 6 a = 22°

b = 136° b = 158°

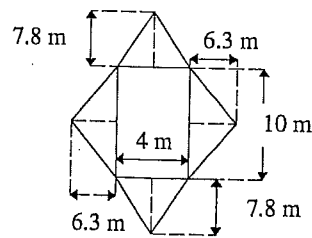
c = 158° c = 22°

C 1 46.28 m² 2 160.66 m² 3 21.56 m²

D 1



3



E 1 1.57 m 2 3.84 m 3 5.10 m
4 43.06 m 5 8.18 m 6 9.86 m
7 27.02 m