40 Drawing graphs - 1

Label the following graphs using the letters shown below.

Choose from:

$$a y = 2x + 1$$

b
$$y = -2x + 1$$
 c $y = -2x - 1$ d $y = 2x - 1$

$$c y = -2x - 1$$

$$d y = 2x - 1$$

$$e y = 2x$$

$$f y = 2x^2 + 1$$

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

f
$$y = 2x^2 + 1$$
 g $y = -2x^2 + 1$ h $y = 2x^2 - 1$ i $y = -2x^2 - 1$

$$i y = -2x^2 - 1$$

$$j y = -2x$$

$$k y = x^3 + 1$$

$$y = -x^3 + 1$$
 $y = x^3 - 1$ $y = -x^3 - 1$

$$m v = x^3 - 1$$

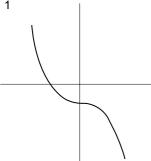
$$y = -y^3 - 1$$

o
$$y = x^3$$

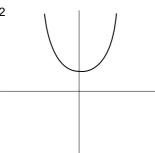
$$p y = -1/x$$

$$q y = \frac{1}{X}$$

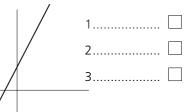
1

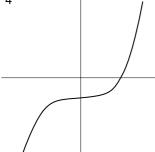


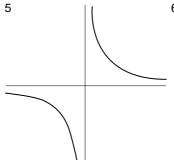
2

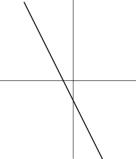


3



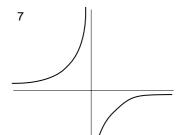


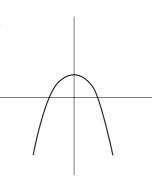




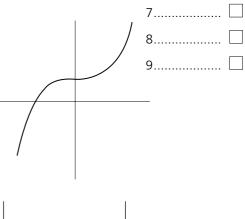


6.....



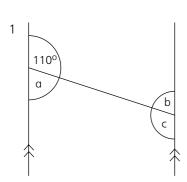


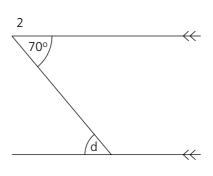
9



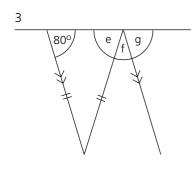
46 Intersecting and parallel lines

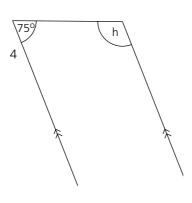
Find the missing angles in these diagrams:



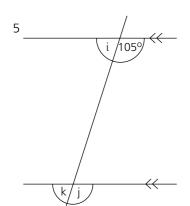


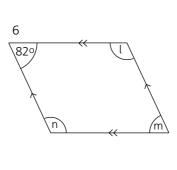
1	a	=	 	 	
	b	=	 	 	



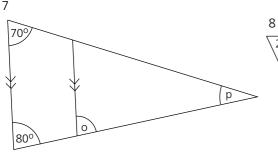


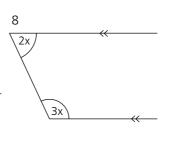






5 i =	
j =	





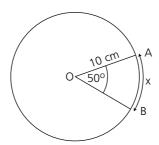
7 o =	
n =	

18

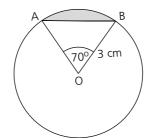
62 Length, area and volume of shapes with curves

O is the centre of each circle.

- 1 a Find the length of the arc x.
 - b Find the area of sector OAB.



- 2 a Find the shaded area.
 - b Find the length of the chord AB.

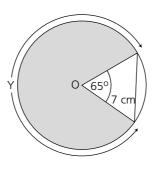


2α..... □

1a.....

b.....

- 3 The radius of this circle is 7 cm.
 - a Find the length of arc Y.
 - b Find the shaded area.



3a.....

- 4 The radius of a sphere is 6 cm. Find:
 - a the total surface area.
 - b the volume.

4a.....

- 5 This cone has a base radius of 3 cm and a height of 4 cm.
 - a Find the volume [volume = $\frac{1}{3}\pi r^2 h$].
 - b Find the slant height.
 - c Find the curved surface area.



- 5a.....
- c.....