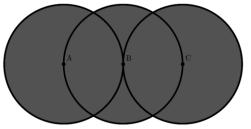


b) The diagram shows three circles, each of radius 6cm. The centres of the circles are A, B and C such that ABC is a straight line and $AB = BC = 6$ cm.			
Work out the area of the shaded region.			
Work out the area of each circle?			
How much of the circle, centre B, is unshaded?		A regular hexagon, formed of six equilateral triangles, is inscribed in a circle.	
		Area of the sector = $\frac{1}{3} \times 36\pi = 12\pi$	
		Area of the triangle = $\frac{1}{2} \times 6 \times 6 \times \sin 120 =$ $18 \times \frac{\sqrt{3}}{2} = 9\sqrt{3}$	
	ВС	Area of the segment = Area of sector – area of triangle =	
How much of the circle, centre B is shaded?			
BACKWARD FADED MATHS			

c) The diagram shows three circles, each of radius 5cm. The centres of the circles are A, B and C such that ABC is a straight line and AB = BC = 5cm.			
	rea of the two shaded regions.		
Give your answer in What is the area of each circle?	terms of π . $A = \pi r^2 = \pi \times 5^2 = 25\pi$		
How much of the circle, centre B, is shaded?	A regular hexagon, formed of six equilateral triangles, is inscribed in a circle. Area of the sector = Area of the triangle =		
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d) The diagram shows three circles, each of radius 5cm. The centres of the circles are A, B and C such that ABC is a straight line and AB = BC = 5cm.



Work out the area of the shaded region. Give your answer in terms of $\boldsymbol{\pi}.$

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