Circular Measure

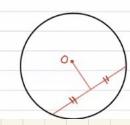
-> Introduction to radion measure

Radian: One radian is the measure of a certal argle when the arc length is equal to the radius

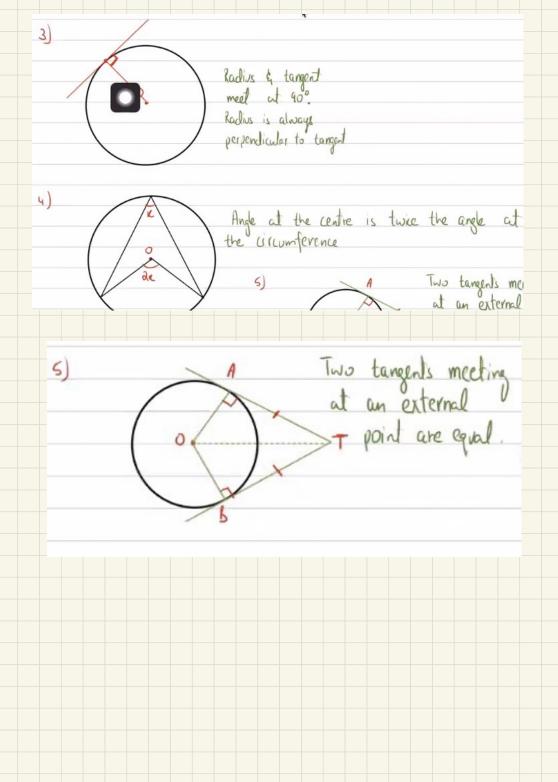
860 = 211 rad

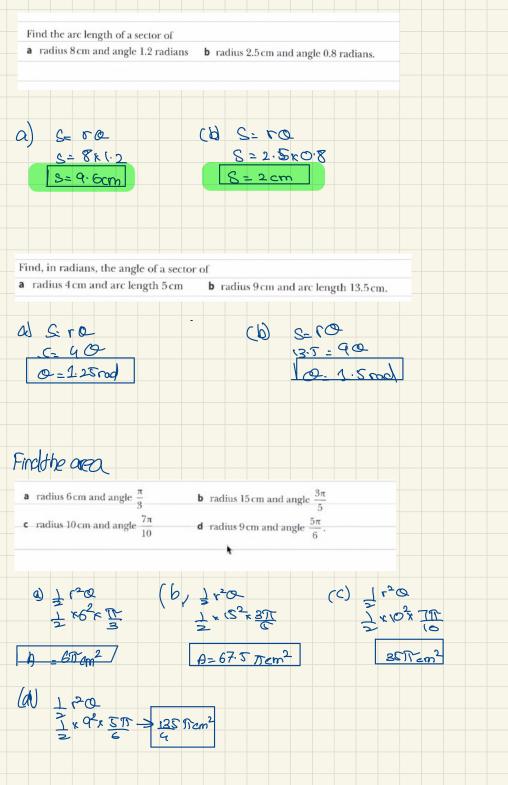
Degree x 7 = Radian

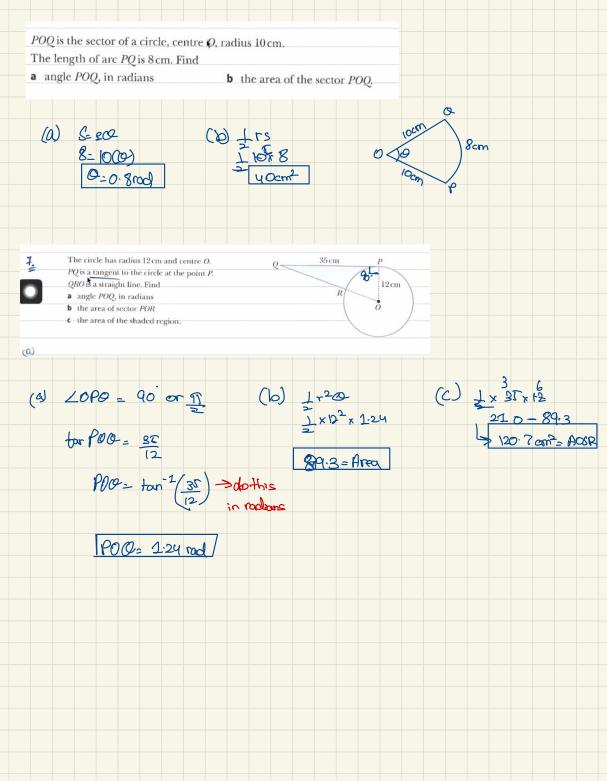
Formula Radian Area of circle 7782 Circumfrence Area of a sector O × Tre2 予しる for length @ > 2718 Oxare = ra Perimeter at P= 2r+ 0 x211s P= 20x00 a sector Preced Triangle 1xax bx sinc 1 xaxbrsinc Sin rule Cosine rul Sircle Properties to Remember Angle opposite the diameter is always 90°

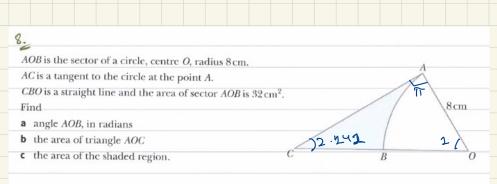


The perpendicular from the centre of a circle to a chord biseds the chord









(a)
$$A = \int_{\mathbb{R}} r^2 \mathcal{O}$$
 b) $tan(2) = n$
 $32 = \int_{\mathbb{R}} x \mathcal{O}$ $n = 12.46 \text{ cm}$
 $6x = 6a \times 0$
 $0 = 1$ $\int_{\mathbb{R}} x \mathcal{O} \cdot (0.8 \text{ cm})$

c)
$$49.8 - 32 \rightarrow 17.8 \text{ cm}^2$$

The diagram shows a circle, centre O, radius 12 cm.

Angle $AOB = \theta$ radians.

- Arc $AB = 9\pi$ cm. **a** Show that $\theta = \frac{3\pi}{4}$.

b Find the area of the shaded region.

9π cm

1x 12×12× Sin(27) S417-36/2 36/2 3