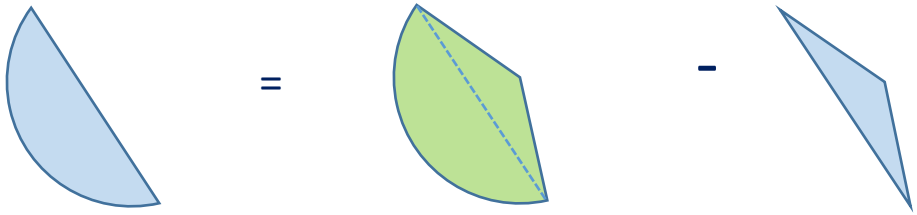
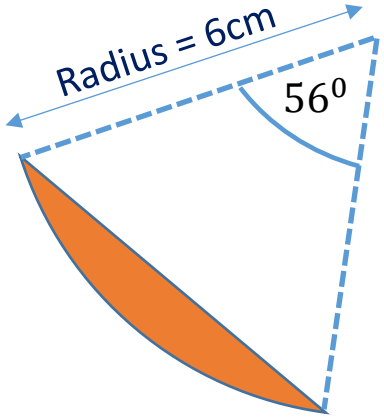
Area of a Segment

Area of a segment = Area of a sector – Area of Triangle





Area of a sector = $\frac{\text{angle}}{360^0}$ x π x radius^2

= $\frac{56^0}{360^0}$ x π x 6^2

= 17.59 cm^2 (2 d.p.)

Area of a triangle = ½ absinC

= ½ x 6 x 6 x sin 56^0

= 14.92 cm^2 (2 d.p.)

Area of Segment = Area of Sector – Area of triangle

= 17.59 – 14.92 = 2.67 cm^2 (2 d.p.)