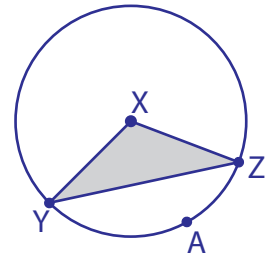


## Area of a segment

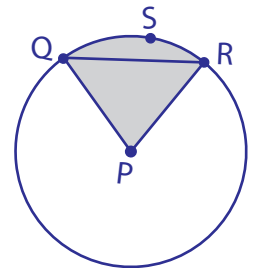
Round the answers to two decimal places.

- 1) The area of the segment of a circle is  $15 \text{ ft}^2$  and if the sector formed has central angle  $112^\circ$  and radius  $5.4 \text{ ft}$ . Find the area of the triangle.



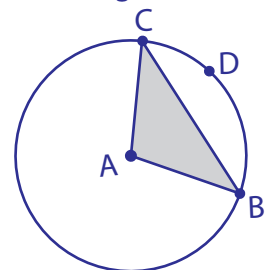
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- 2) The triangle has base of  $12 \text{ in}$  and height  $9 \text{ in}$  and the area of segment formed is  $17 \text{ in}^2$ . Find the area of the sector.



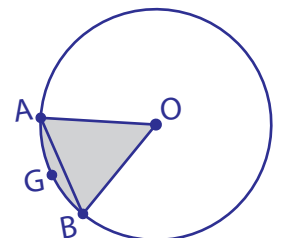
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- 3) If the area of a segment is  $10 \text{ cm}^2$  and radius  $9 \text{ yd}$ , then find the area of the sector if the central angle has a central angle  $102^\circ$



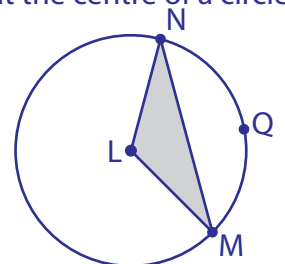
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- 4) The triangle has base and height  $12 \text{ cm}$  and the area of a segment so formed is  $24 \text{ in}^2$ . Find the area of the sector.



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- 5) Find the area of a triangle if the segment made by the chord which subtends  $120^\circ$  at the centre of a circle of radius  $15 \text{ ft}$  has the area  $138 \text{ ft}^2$ .



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