Circle

Exercise-90

Solution 1:

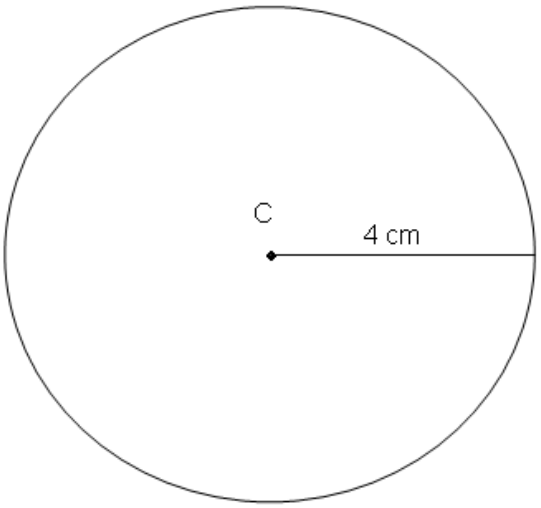
1. Radii: seg BP, seg BT, seg BN, seg BS, seg BQ, seg BR.
2. Diameters: seg RS, seg PQ
3. Points: R, P, M, T, N, S, Q, C.
   a. False
   b. True
   c. False
   d. True

Solution 2:

1. Radius = 7 cm
   Diameter = 2 × Radius = 2 × 7 = 14 cm
2. Radius = 5 cm
   Diameter = 2 × Radius = 2 × 5 = 10 cm
3. Radius = 2 m
   Diameter = 2 × Radius = 2 × 2 = 4 m
4. Radius = 2.5 cm
   Diameter = 2 × Radius = 2 × 2.5 = 5 cm

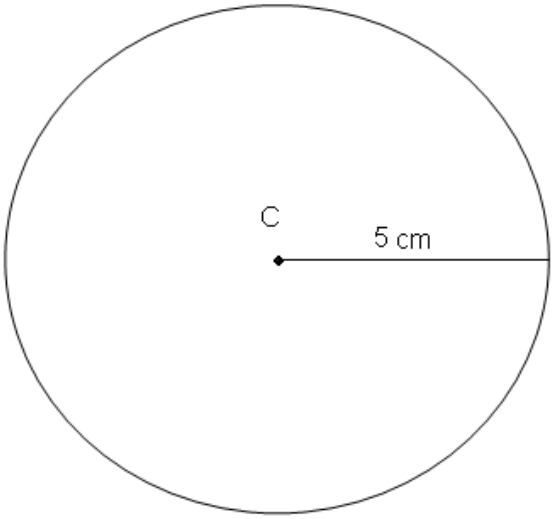
Solution 3(1):

Circle with radius 4 cm.



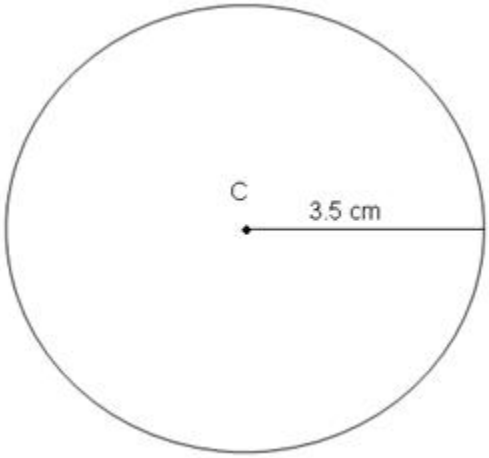
Solution 3(2):

Circle with radius 5 cm.

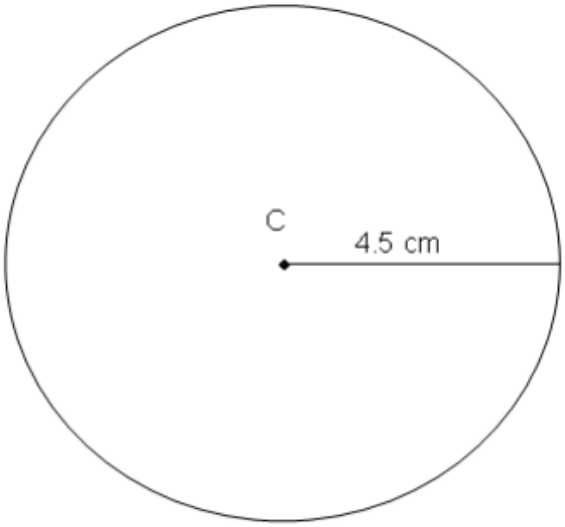


Solution 3(3):

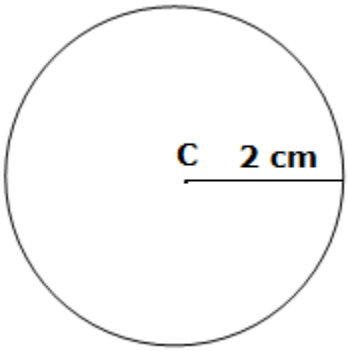
Circle with radius 3.5 cm.



Solution 3(4):
Circle with radius 4.5 cm.



Solution 3(5):
Circle with radius 2 cm.



Exercise-91

Solution 1:
Radii: seg CB, seg CX, seg CH, seg CI, seg CM, seg CA
Chords: seg RG, seg AB, seg IH, seg MX, seg AH
Diameters : seg AB, seg MX, seg IH

Solution 1(2):
Radii: seg CA, seg CQ, seg CS, seg CU, seg CN
Chords: seg RO, seg AH, seg AU, seg NQ, seg KS
Diameters: seg AU, seg NQ

Solution 1(3):
Radii: seg CH, seg CK, seg CS, Seg CE, seg CR
Chords: seg KH, seg AH, seg KR, seg SH, seg SR
Diameters: seg RK, seg SH

Solution 2:
arc AOB and arc ALB
arc ATU and arc ALU
arc TQR and arc TPR

Solution 3:
For circle (1)

1. Points in the interior of the circle: A, B, H, M, X, D
2. Points in the exterior of the circle: P, T, C, F, E
3. Points on the circle: R

For circle (2)

1. Points in the interior of the circle: B, J, R, O, Y, W
2. Points in the exterior of the circle: L, M, D, K
3. Points on the circle: H, T.