7) Use the given circle to find each measure.
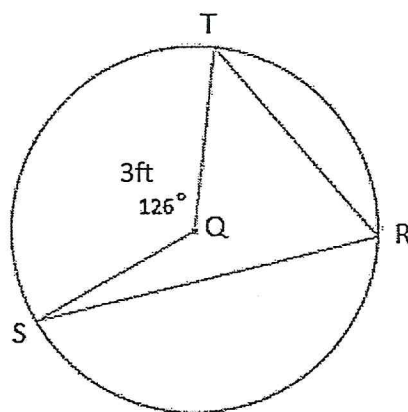
a) measure of arc TQS ⌢TRS

b) *m* arc TS

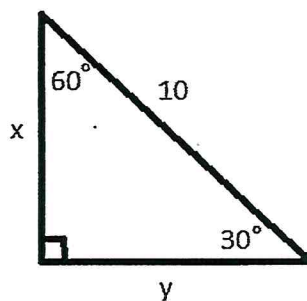c) *m* < TRS

d) length of arc TS

(Circle with center Q, points T, R, S on the circle. Radius labeled 3ft, central angle 126°.)

8) A Sphere has a volume of $300cm^3$. Find its diameter.

9) Solve for x and y in the given triangle. Leave your answer in simplest radical form

(Right triangle with a 60° angle at top, hypotenuse labeled 10, left side labeled x, bottom side labeled y, 30° angle at bottom right, right angle at bottom left.)

10) Find the geometric mean of 5 and 15. Leave your answer in simplest radical form