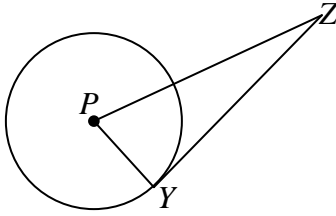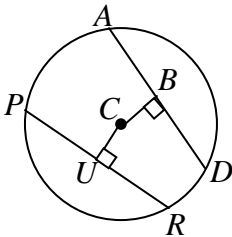1. $\overline{YZ}$ is tangent to circle P at point Y. The radius is 13 mm long.
     If $\angle PZY = 24°$, find PZ. (nearest tenth)

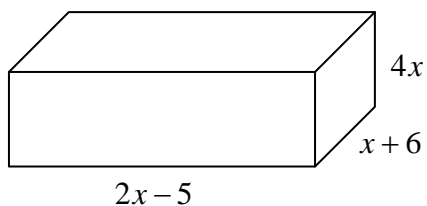2. A sphere has a surface area of 289π m^2. What is the volume?

3.   Given circle C with $BC=CU$, $PR = 7x^2 - 25$ and $AD = 11 + 5x^2$, find **AD.**

4.   Circle M contains chord $\overline{EF}$ which is 26 cm long. The diameter of the
     circle is 32 cm long. Find the distance from $\overline{EF}$ to M. (nearest tenth)
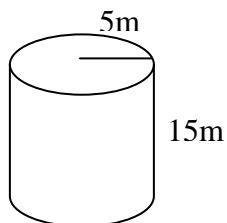
5. The volume of a cube is 343 cm^3. Find the surface area.

6. Find the volume.

$4x$

$x + 6$

$2x - 5$

7. Find the surface area and volume of a cube with sides of 12 in.

8. Find the volume and surface area.

5m

15m

9-10. Use the quadratic formula to solve the following equations. Round answers to the nearest tenth if necessary.

9. $x^2 + 43x - 90 = 0$

10. $3x^2 + 10x + 5 = 0$

11-**12**. Solve each system by method of choice (substitution or elimination). Write your answer as an ordered pair.

11. $\begin{aligned} y &= 2x \\ x + 2y &= 18 \end{aligned}$

12. $\begin{aligned} 2x - 3y &= 8 \\ 3x + 2y &= -1 \end{aligned}$