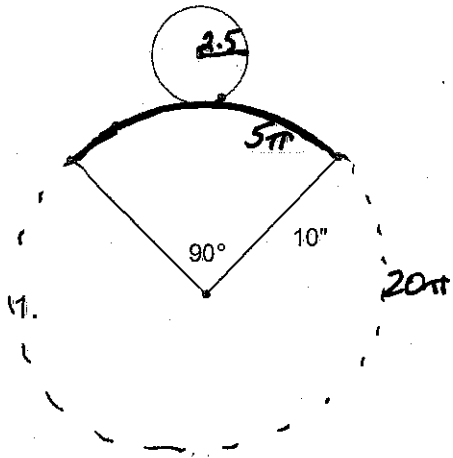


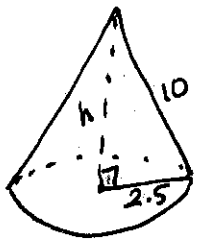
Review

Name _____

1 - 2 Draw the pyramid or cone that can be folded from the net. Find the surface area and volume.

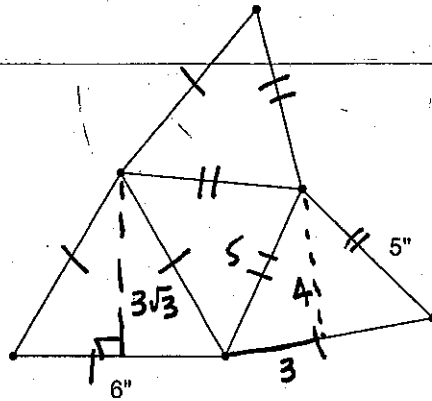


$$\begin{aligned}
 SA &= A_{\text{Base}} + LSA \\
 &= \pi r^2 + \pi r s \\
 &= \pi (2.5)^2 + \pi (2.5)(10) \\
 &= 6.25\pi + 25\pi \\
 &= 31.25\pi \text{ in}^2
 \end{aligned}$$

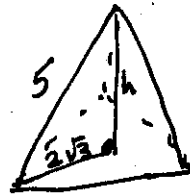


$$\begin{aligned}
 h &= \sqrt{10^2 - 2.5^2} \\
 h &= \sqrt{93.75}
 \end{aligned}$$

$$\begin{aligned}
 V &= \frac{1}{3} A_B h \\
 &= \frac{1}{3} (6.25\pi) (\sqrt{93.75}) \\
 &= 2 \frac{1}{12} \pi \sqrt{93.75} \text{ in}^3
 \end{aligned}$$

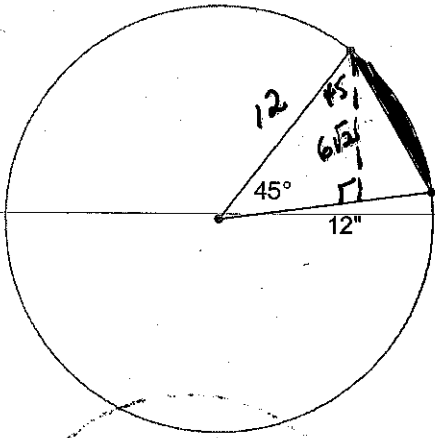


$$\begin{aligned}
 SA &= A_{\text{Base}} + 3 A_{\text{Lateral Faces}} \\
 &= \frac{1}{2} \cdot 6 \cdot 3\sqrt{3} + 3 \cdot \frac{1}{2} \cdot 6 \cdot 4 \\
 &= 9\sqrt{3} + 36 \text{ in}^2
 \end{aligned}$$

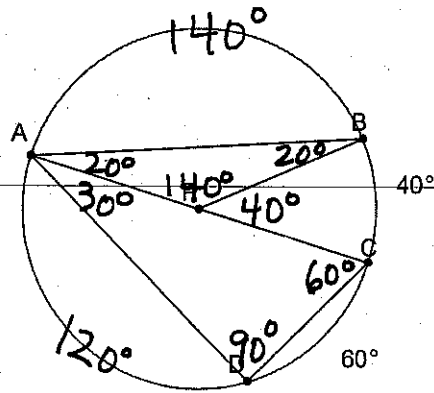


$$\begin{aligned}
 h &= \sqrt{5^2 - (2\sqrt{3})^2} \\
 h &= \sqrt{13}
 \end{aligned}$$

$$\begin{aligned}
 V &= \frac{1}{3} A_B h \\
 &= \frac{1}{3} (9\sqrt{3}) (\sqrt{13}) \\
 &= 3\sqrt{39} \text{ in}^3
 \end{aligned}$$



3. Find the shaded region
P is the center of the circle



4. P is the center of the circle
AC is a diameter
Find all missing angle and arc measure

$$A_{\text{sector}} - A_{\text{triangle}}$$

$$\frac{1}{8} \cdot 144\pi - \frac{1}{2} \cdot 12 \cdot 6\sqrt{2}$$

$$18\pi - 36\sqrt{2} \text{ in}^2$$