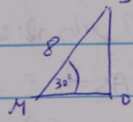
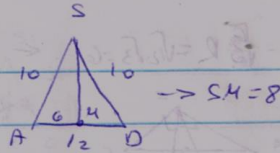
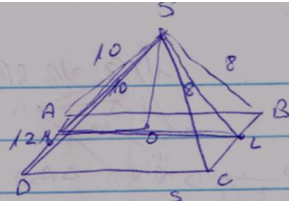


4.7
6

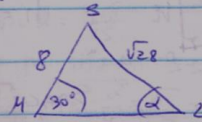
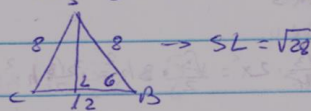


$$SO = 8 \sin 30 = 4$$

$$MO = 8 \cos 30 = 4\sqrt{3}$$

ANS: 12, 4, 4, 8, 10, 8

~~V_{SABCO} = \frac{1}{3} \cdot AB \cdot AD \cdot SO = \frac{1}{3} \cdot 12 \cdot 4 \cdot 4 = 64~~



$$\frac{8}{\sin \alpha} = \frac{\sqrt{28}}{\sin 30}$$

$$\cos \alpha = \frac{\sqrt{3}}{7} \leftarrow \sin \alpha = \frac{4}{\sqrt{28}} = \sqrt{\frac{4}{7}}$$

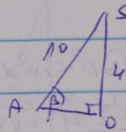
ANS: \sqrt{3}/7

$$\sin \angle MSL = \sin(150 - \alpha) = \sin 150 \cos \alpha - \cos 150 \sin \alpha = \frac{1}{2} \cdot \frac{\sqrt{3}}{7} + \frac{\sqrt{3}}{2} \cdot \sqrt{\frac{4}{7}} = \frac{3\sqrt{3}}{27}$$

$$\frac{LM}{\sin \angle MSL} = \frac{\sqrt{28}}{\sin 30} \rightarrow LM = \frac{\frac{3\sqrt{3}}{27} \cdot \sqrt{28}}{\frac{1}{2}} = 6\sqrt{3}$$

$$V_{SABCO} = \frac{1}{3} \cdot AB \cdot AD \cdot SO = \frac{1}{3} \cdot 6\sqrt{3} \cdot 12 \cdot 4 = 96\sqrt{3}$$

7



$$\sin p = \frac{4}{10} = 0.4$$