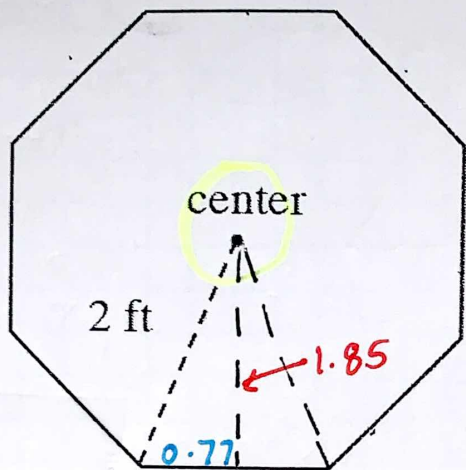


8-37. GO, ROWDY RODENTS!



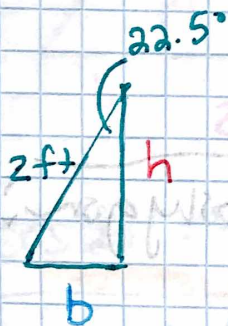
* can also use
 $A = \frac{1}{2} a P$
 for area

a)
Area

$$A = \frac{bh}{2} \times 8 \text{ triangles}$$

$$A = \frac{(1.54)(1.85)}{2} \times 8$$

a) $\frac{360}{8 \text{ sides}} = 45^\circ \text{ central angle}$



$$\cos 22.5^\circ = \frac{h}{2}$$

$$h \approx 1.85 \text{ ft}$$

$$\sin 22.5^\circ = \frac{b}{2}$$

$$b \approx 0.77 \text{ ft}$$

Total base

$$0.77 \times 2 = 1.54 \text{ ft}$$

$A \approx 11.4 \text{ ft}^2$
 of glass needed

b) * need
 perimeter

$$P = \Delta \text{ base} \times 8 \text{ sides}$$

$$= 1.54 (8)$$

$$P = 12.32 \text{ ft}$$

→ cost of trim
 \$48.99 per foot

$$48.99 (12.32)$$

$= \$603.56$
 for trim