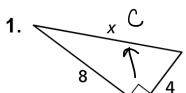
Area of Polygons

PTH

Find the value of x in the right triangle.



p-thony's 2out of 3

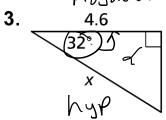
$$a^2 + b^2 = c^2$$

$$a^{2} + b^{2} = c^{2}$$
 $4^{2} + 8^{2} = c^{2}$
 $a^{2} + 4^{2} = c^{2}$

$$16 + 64 = c^{2}$$

 $80 = c^{2} (c = 8.9)$

Ex 1



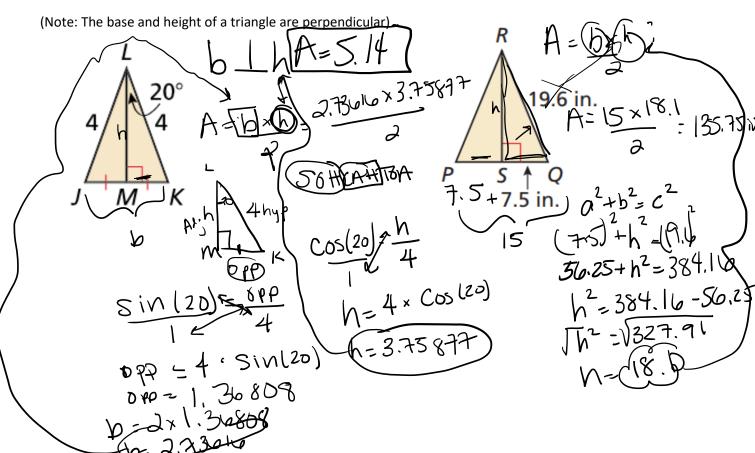
$$\frac{4.6}{\cos(32)} = \frac{4.6}{\times}$$

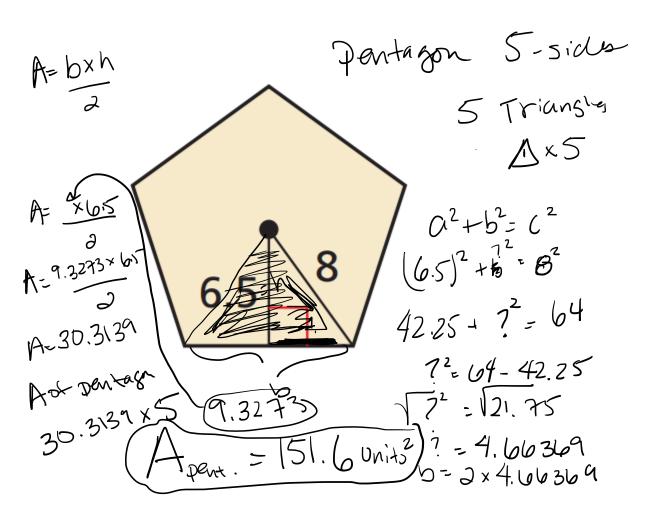
$$\frac{4.6}{\cos(32)} = \frac{4.6}{\cos(32)}$$

$$= \frac{4.6}{\cos(32)}$$

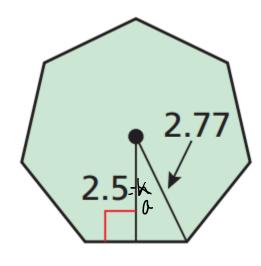
Find the area of the triangle

You Try





You Try



2D - 3D h-apothem

3D - height is

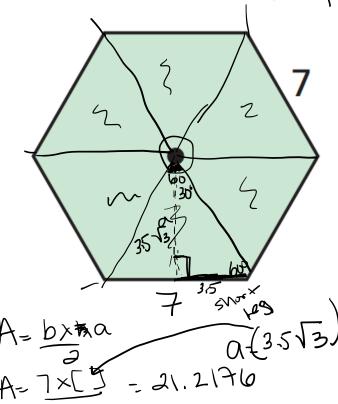
the segment-that

connects the

buses

Ex 3

a = apother b = base



3. $360/\pm 04$ sides $360/6 = 60^{\circ}$

2. Central/2 60/2=30°

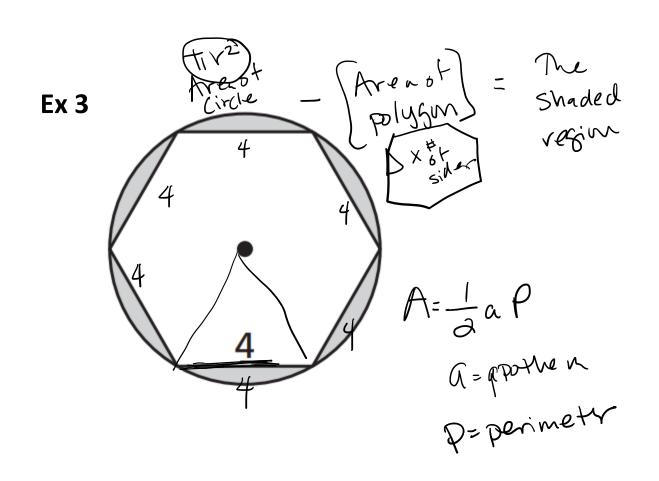
3. Use the rules 30°-60°-90°

4. Area of one througher 7 x3553

5. A x # of sides

A1.2176 X 60

A= 127.3 Units



Ex 4

You are decorating the top of a table by covering it with small ceramic tiles. The tabletop is a regular octagon with 15-inch sides and a radius of about 19.6 inches. What is the area you are covering?

