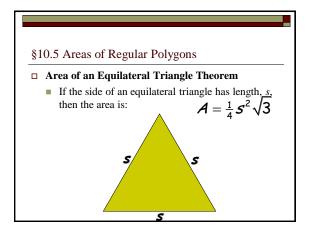
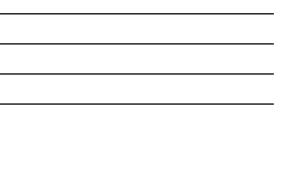
## Friday, March 1, 2013

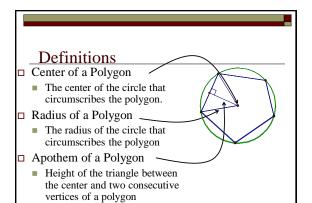
No TISK & No MM

- · Calculate the area of an equilateral triangle.
- Calculate the area of a regular polygon.
- Homework: Complete Ch10 Packet

23) 169	30) 182	37) 120
24) 96	31) 21	
25) 60	32) $x = 4\sqrt{5}$	
26) 165	33) $x = 12$	
27) 36	34) $x = 4$	
8) 18√10	35) 96	
29) 192	36) 72	

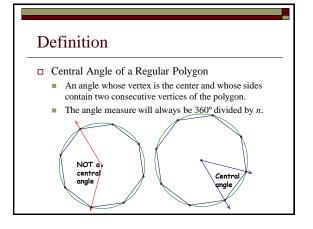


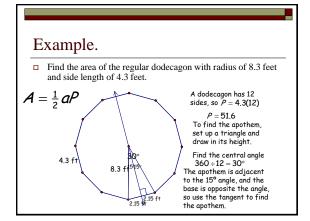




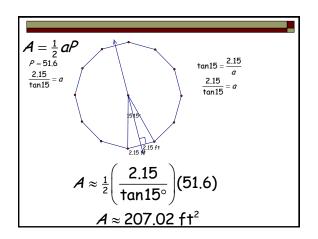
Area of a Regular Polygon Theorem

The area of a regular *n*-gon with side length *s*, apothem *a*, and perimeter *P* is:  $\mathbf{A} = \frac{1}{2} \mathbf{a} \mathbf{P}$  or  $\mathbf{A} = \frac{1}{2} \mathbf{a} (\mathbf{n} \mathbf{s})$ 











## YES!

- □ You will need a calculator with the ability to calculate trig ratios for many of these.
- □ You will use a calculator on the test for this chapter!