

Quiz tomorrow

Warm-up

1) Draw a Convex Pentagon

2) Draw a Concave quadrilateral.

3) Given  $A(1,2)$ ,  $B(4,6)$ ,  $C(5,2)$ , find distance from  $AB$ ,  $BC$  &  $AC$

$$D = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2}$$

$$AB = \sqrt{\underbrace{(1-4)^2}_{(-3)^2} + \underbrace{(2-6)^2}_{(-4)^2}}$$

$$9 + 16 = \sqrt{25} = 5$$

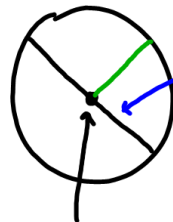
$$BC = \sqrt{17}$$

$$AC = \sqrt{\quad}$$

## 1.7a Perimeter & Area

Perimeter - Sum of all sides

Circumference - distance around the circle



Center

Diameter - goes thru  
center from  
side to side

Radius - goes from the  
center to the edge

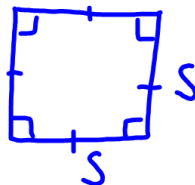
$$1 \text{ Diameter} = 2 \text{ radii}$$

$$d = 2r$$

$$\text{Circumference: } C = \pi d \text{ or } C = 2\pi r$$

$$\text{Area: } A = \pi r^2$$

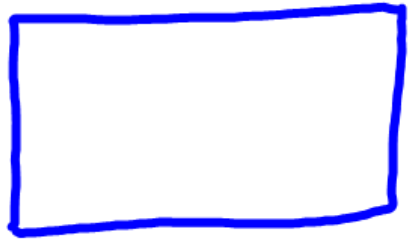
Square



$P =$  add all sides

$$A = s \times s \text{ or } A = s^2$$

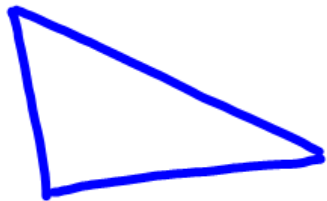
# Rectangle



$P =$  add all sides

$A = bh$  or  $A = lw$

# Triangle



← Half a rectangle

$P =$  add all sides

$A = \frac{1}{2}bh$  or  $A = \frac{bh}{2}$