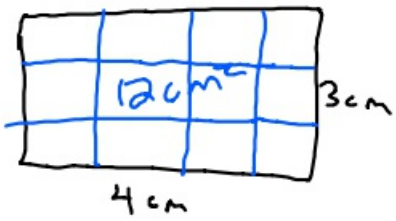
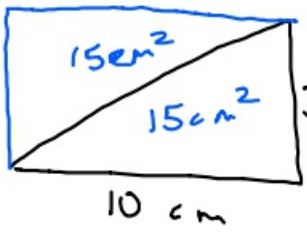
9-23-19 2nd Geo

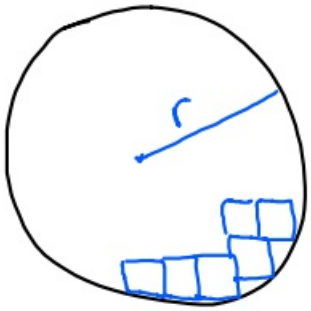
Area



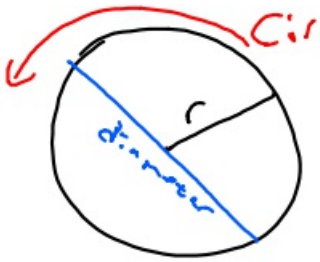


Triangle

$A = \frac{1}{2} \cdot b \cdot h$



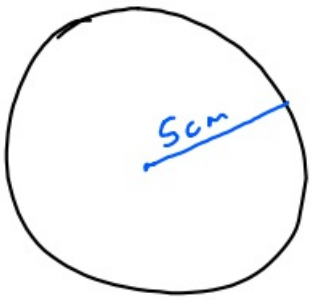
$A = \pi \cdot r^2$



$C = \pi \cdot d$

or

$2\pi r$



$A = \pi \cdot r^2$

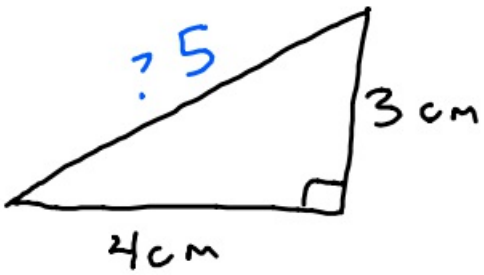
$= \pi \cdot 5^2$

$\approx 78.5 \text{ cm}^2$

$C = \pi \cdot d$

$= \pi \cdot 10$

$\approx 31.4 \text{ cm}$

② 

$A = \frac{1}{2} \cdot b \cdot h$

$\frac{1}{2} \cdot 4 \cdot 3$

$6\ cm^2$

$leg^2 + leg^2 = hyp^2$

$3^2 + 4^2 = hyp^2$

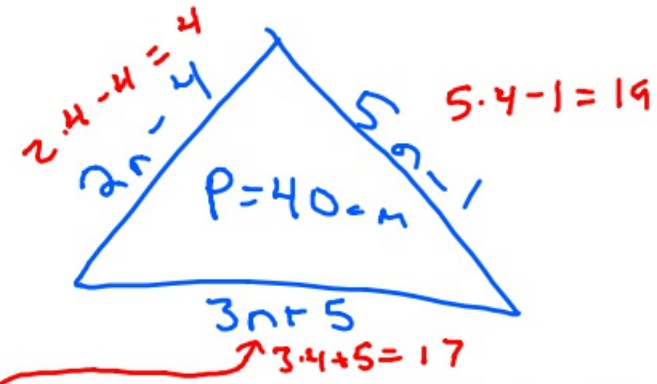
$25 = hyp^2$

$hyp = 5$

Perimeter $= 3+4+5$

$= 12\ cm$

③ Perimeter around a △ is 40 cm. The sides have lengths of $5n-1$, $3n+5$, and $2n-4$. What is length of shortest leg?



$5n-1 + 3n+5 + 2n-4 = 40$

$10n = 40$

$n = 4$

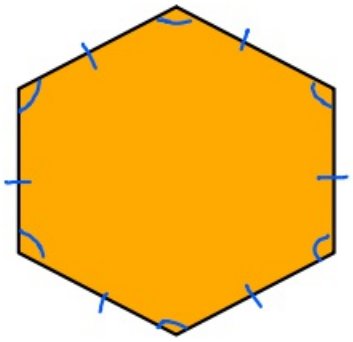
Polygons

Sides	Call it
3	triangle
4	quadrilateral
5	pentagon
6	hexagon
7	heptagon / septagon
8	octagon
9	nonagon
10	decagon
11	11-gon

Regular polygon

All sides are = in length

All angles are =



Concave vs. Convex