

3/17 p.274-277 Δ DAY

polygon = $(x-2) \cdot 180$

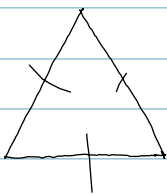
$A = \pi r^2$

Sides

equilateral
isosceles
scalene

angles

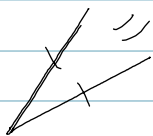
acute (all angles are acute) $>0^\circ; <90^\circ$
right (one angle is 90°) (right)
obtuse (one angle is obtuse) $>90^\circ; <180^\circ$



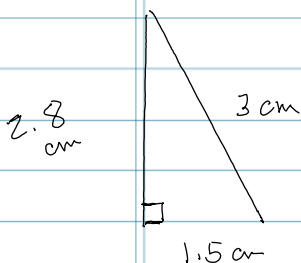
equilateral / acute (regular)



isosceles
↳ acute
↳ right
↳ obtuse

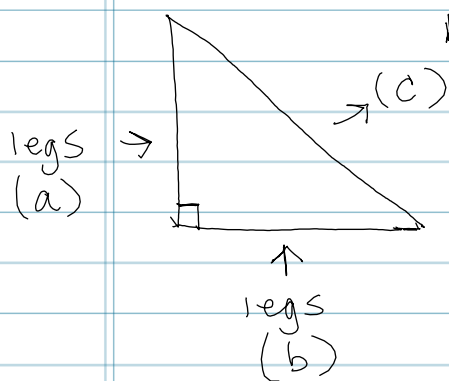


scalene
↳ acute
↳ right
↳ obtuse



- tessellate
- area of Δ
- Δ inequality? $(a+b > c)$

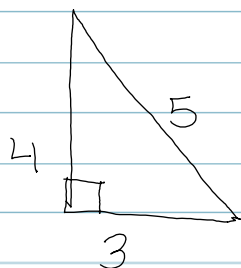
Tangrams



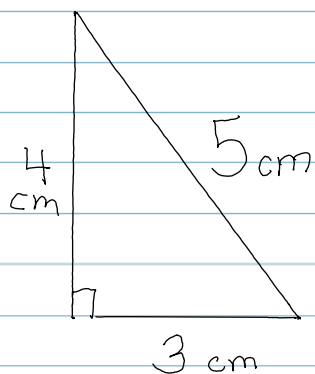
right Δ

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

3 4 5 triangle



side A = 3 ft.
side B = 4 ft
side C = 5 ft



$$a^2 + b^2 = c^2$$
$$3^2 + 4^2 = 5^2$$

~~3^2 + 4^2 = 5^2~~

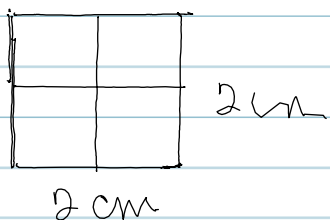
$$9 + 16 = 25$$

right Δ = NO

$$a^2 + b^2 = c^2$$
$$(3.5)^2 + (4.5)^2 = (5.5)^2$$

$$12.25 + 20.25 \not= 30.25$$

⊗ $a + b > c$ to make a triangle



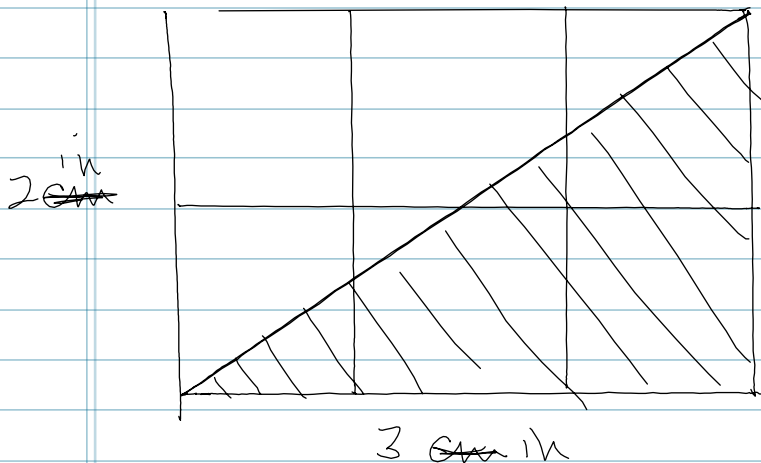
quad perimeter = ~~4~~
 $x + x + x + x$

quad area = $l \cdot w$



perimeter = ~~8~~ cm
 area = ~~4~~ sq. cm

Triangle = perimeter (meas. 3 sides)

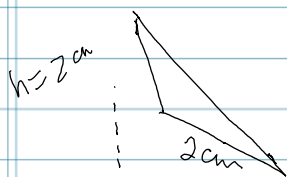


Δ area = $\frac{1}{2}(b \cdot h)$

$\frac{1}{2}(3 \cdot 2)$
 $\frac{1}{2} \cdot 6$

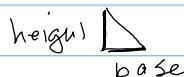
3 sq in.

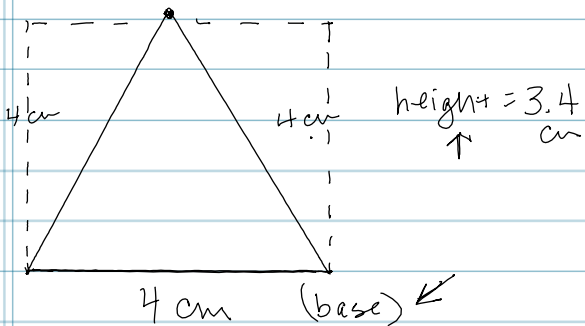
quad = 6 sq. in
 10 perimeter



area = 2 cm^2
 2 sq. cm

$\frac{1}{2}(b \cdot h)$
 $\frac{1}{2}(2 \cdot 2)$
 $\frac{1}{2}(4)$





~~isosceles~~ equilateral acute

$$\begin{aligned} \text{area} &= \frac{1}{2} (b \cdot h) \\ &= \frac{1}{2} (4 \cdot 3.4) \\ &= \frac{1}{2} (13.6) \\ &= 6.8 \text{ sq. cm} \end{aligned}$$

← use sides

height
(2.4)

base
(2.7 cm)

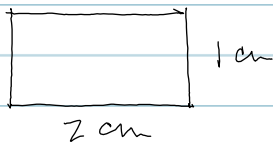
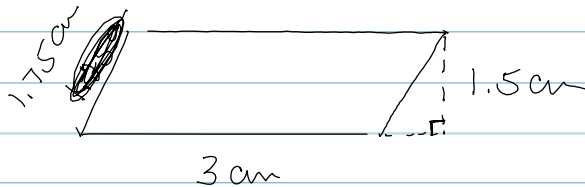
$$\begin{aligned} \text{Area} &= \frac{1}{2} (b \cdot h) \\ &= \frac{1}{2} (2.7 * 2.4) \\ &= \frac{1}{2} (6.48) \\ &= 3.24 \text{ sq. cm} \\ &= 3.24 \text{ cm}^2 \end{aligned}$$

area = rectangle
area = triangle

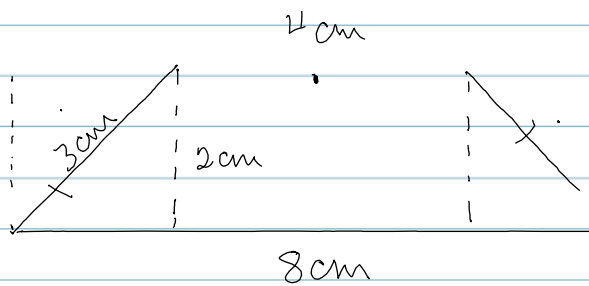
$b \cdot h$ ($l \times w$)

$\frac{1}{2} (b \cdot h)$ not always the side
it may be height

area = parallelogram ($b \cdot h$)



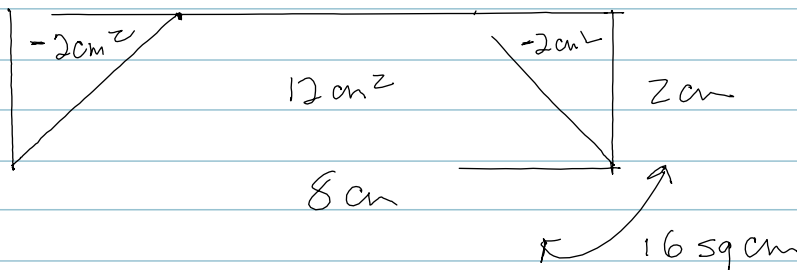
$$\text{area of trapezoid} = \frac{a+b}{2} h$$



$$a = \left(\frac{4+8}{2} \right) (h)$$

$$a = 6 \cdot 2$$

$$a = 12 \text{ sq. cm}$$



Week of Apr. 27 - May 1
Tues 4/28
Wed 4/29
Thw 4/30

SS (week of 4/20)
special test...

95

95

95

95

80