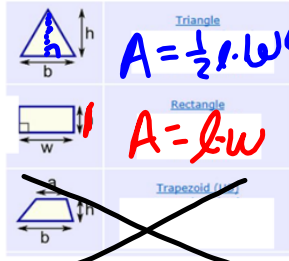


Unit 4.5 Day 12: Area of a Figure



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

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

$A = l \cdot w$ or $A = a^2$

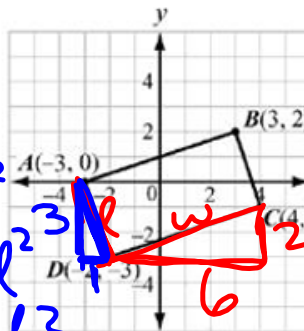
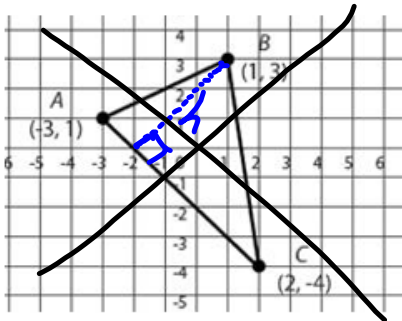
$7 \cdot 7 = 7^2$

$a \cdot a = a^2$

Area of Irregular Figures

1. Breaking them up into triangles & rectangles
2. Find areas of each triangle & rectangle
3. Add them up!

Find the Area of the Figures:

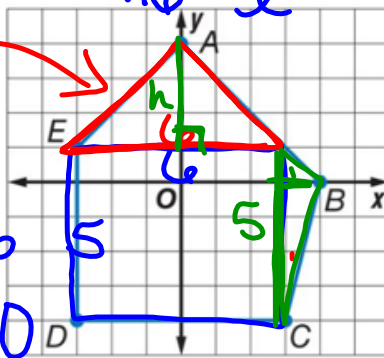


$a^2 + b^2 = c^2$
 $3^2 + 1^2 = l^2$
 $9 + 1 = l^2$
 $10 = l^2$
 $3.16 = l$

area: $l \cdot w$
 area: $(3 \cdot 1) (6.32)$
 $A = 19.97 \text{ units}^2$
 $2^2 + 6^2 = C^2$
 $4 + 36 = 40$
 6.32

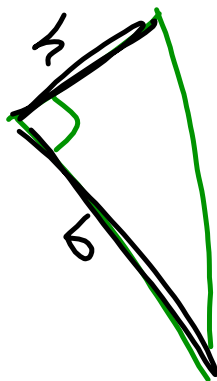
Irregular Figures:

$A = \frac{1}{2} b \cdot h$
 $A = \frac{1}{2} (6 \times 3)$
 $A = 9 \text{ units}^2$



$A = 5 \cdot 6$
 $A = 30 \text{ units}^2$

$A = \frac{1}{2} b \cdot h$
 $A = \frac{1}{2} (5 \times 1)$
 $A = 2.5 \text{ units}^2$

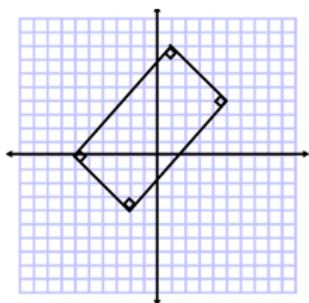


Area of Figure = 41.5 units²

Practice/Closure Day 12



1.) Find the area of the figure:



2.) Two joggers run 11 miles north and then 7 miles west. What is the shortest distance, to the nearest hundredth of a mile, they must travel to return to their starting point?

3.) Find the distance between these two points: (4, 7) and (1, -6)

