Warm up/ Review
Write these down and solve

1) $5^7 \cdot 5^6 = 5^{13}$

$= 78{,}125 \cdot 15{,}625$

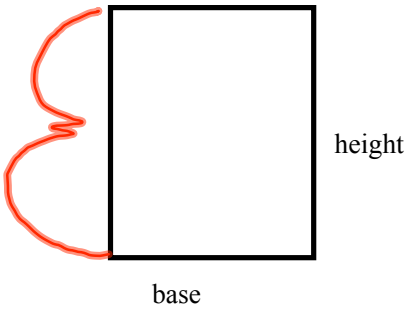
$5^{13} = 1{,}220{,}703{,}125$

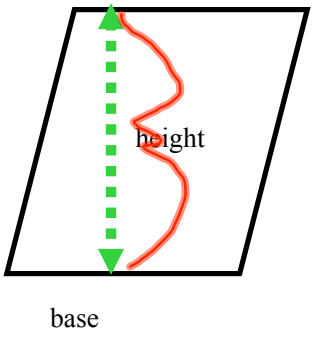
Solve the problem of radicand 125 with a root index of 3?
Write the problem and solve.

$\sqrt[3]{125}$

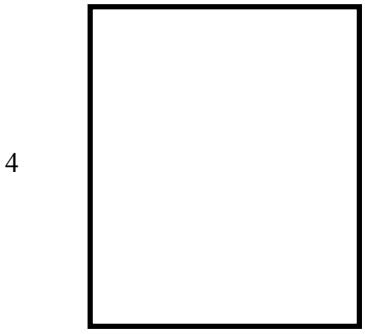
$\therefore$

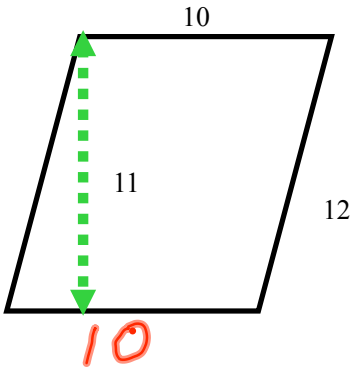
the area of a Square or parallelogram
= base • height





Practice find the area.





$A = 3 \times 4$

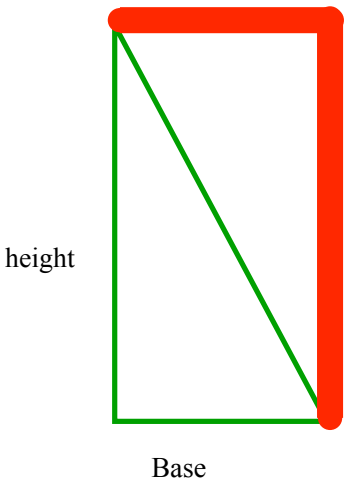
$= 12 \text{ units}^2$

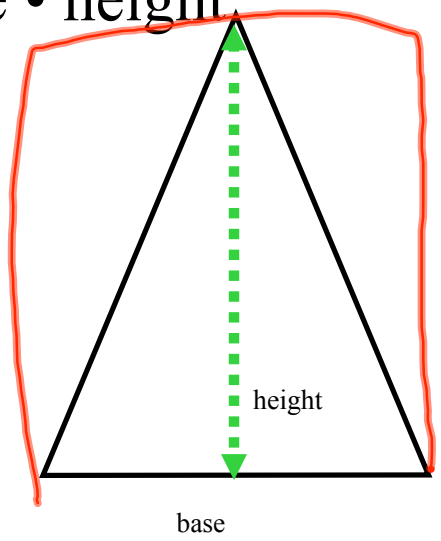
$A = 11 \times 10$

$= 110 \text{ units}^2$

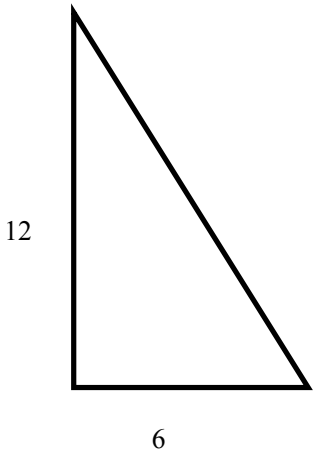
$\therefore$

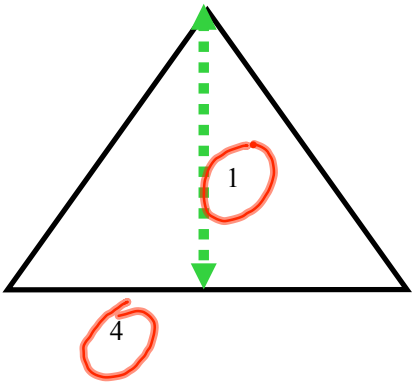
Area of a triangle
= ½ • base • height





Practice
Find the area.





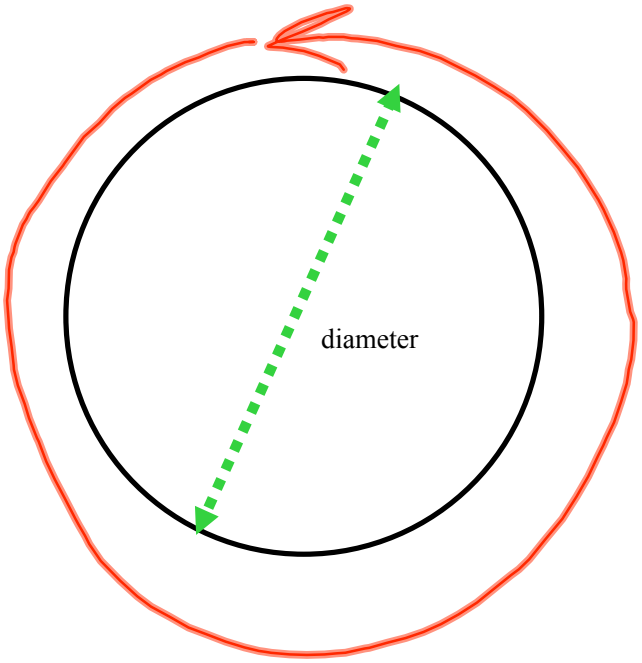
$A = 6 \cdot 12 \cdot \frac{1}{2}$

$= 36 \text{ units}^2$

$A = 4 \cdot 1 \cdot \frac{1}{2}$

$= 2 \text{ units}^2$

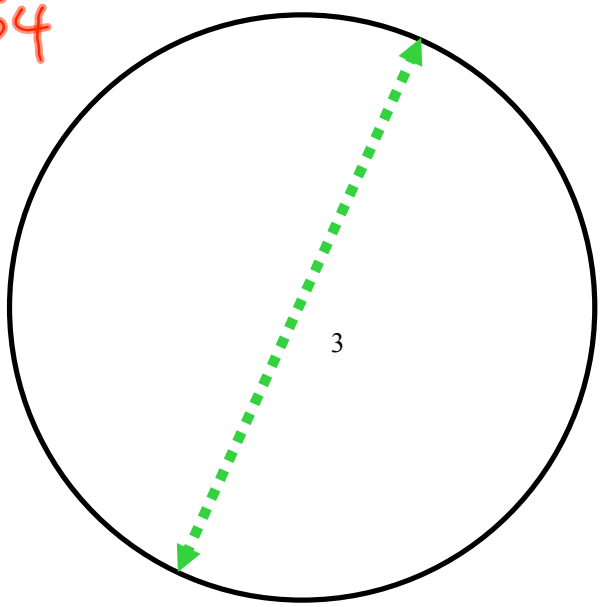
Circumference of a circle
$= \pi \bullet$ Diameter



Practice

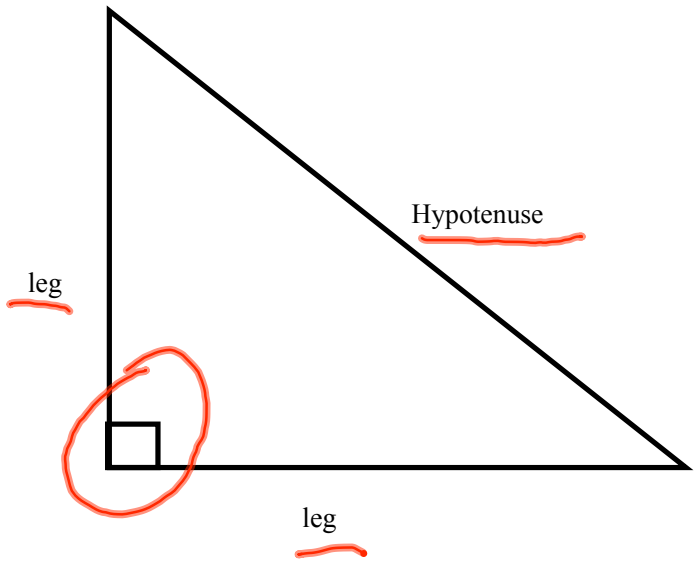
Circumference = $\pi \cdot 3 = 9.4248$

$\pi = 3.141592654$

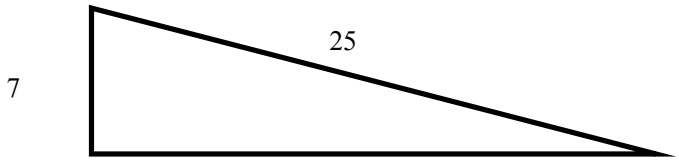


Pythagorean theorem

$$\text{Leg}^2 + \text{Leg}^2 = \text{Hyp.}^2$$



finish this problem



$$7^2 + x^2 = 25^2$$

$49 + x^2 = 625$

$-49 \qquad -49$

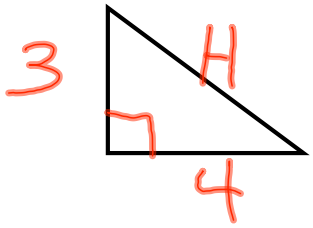
$x^2 = 576$

$x \cdot x = 576$

$x = 24$

$\therefore$

$leg^2 + leg^2 = H^2$



$3^2 + 4^2 = H^2$

$9 + 16 = H^2$

$25 = H^2$

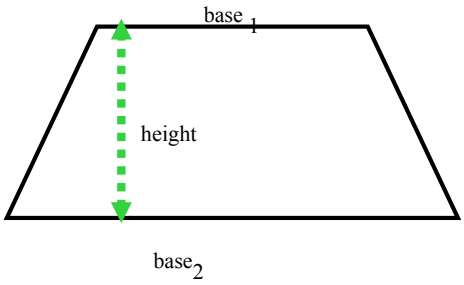
$25 = H \cdot H$

$5 = H$

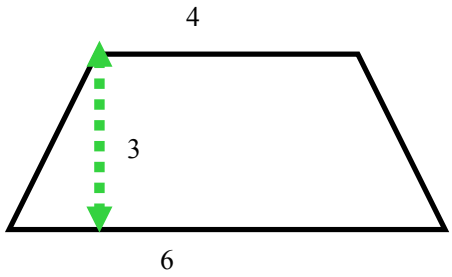
$\therefore$

the area of a trapezoid

$= \frac{1}{2}(\text{base}_1 + \text{base}_2) \bullet \text{height}$



Practice



$$A = \frac{1}{2} \cdot (6+4) \cdot 3$$

$$= \frac{1}{2} \cdot (10) \cdot 3$$

$$= \frac{1}{2} \cdot 30$$

$$= 15 \text{ units}^2$$

chap 2-3

1-3 all