

Geometry

5-20-13 MONDAY

Classmates

144



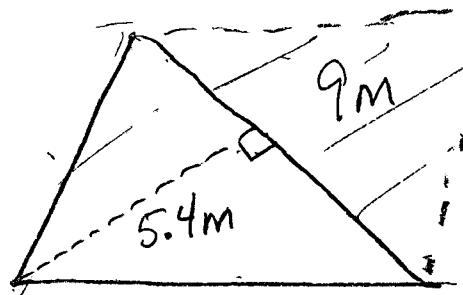
$A = bh$

$A = ?$

$A = 4(8.7)$

$A = 34.8 \text{ yd}^2$

145



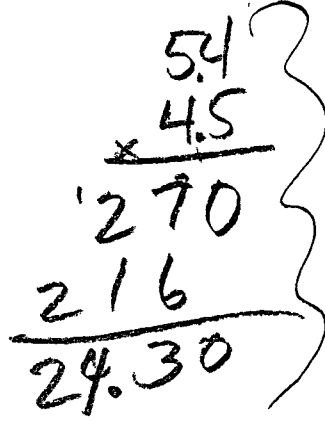
$A = \frac{1}{2}bh$

$A = ?$

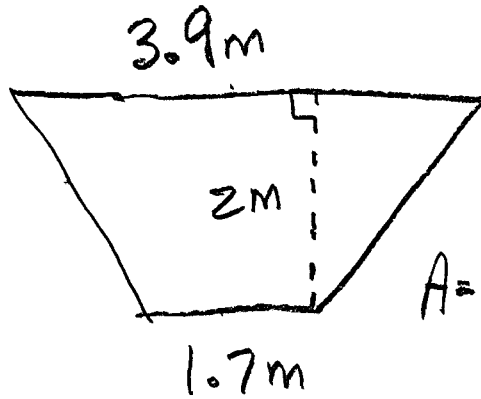
$A = \frac{1}{2}(5.4)(9)$

$A = (4.5)(5.4)$

$A = 24.3 \text{ m}^2$



(146)

 $A = ?$ 

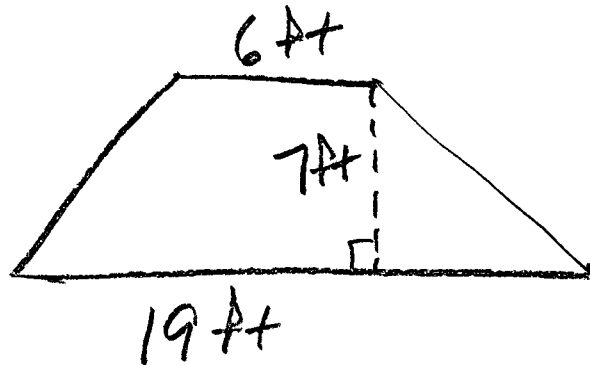
$$A = \frac{1}{2} (b_1 + b_2) h$$

$$A = \frac{1}{2} (3.9 + 1.7) 2$$

$$A = \frac{1}{2} (5.6) 2$$

$$A = 5.6 \text{ m}^2$$

(EX)



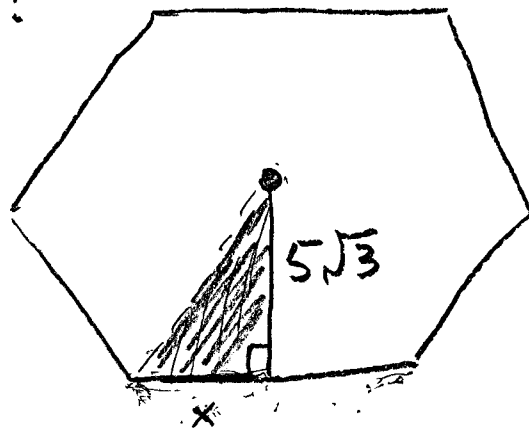
$$A = \frac{1}{2} (6 + 19) 7$$

$$= \frac{1}{2} (25) 7$$

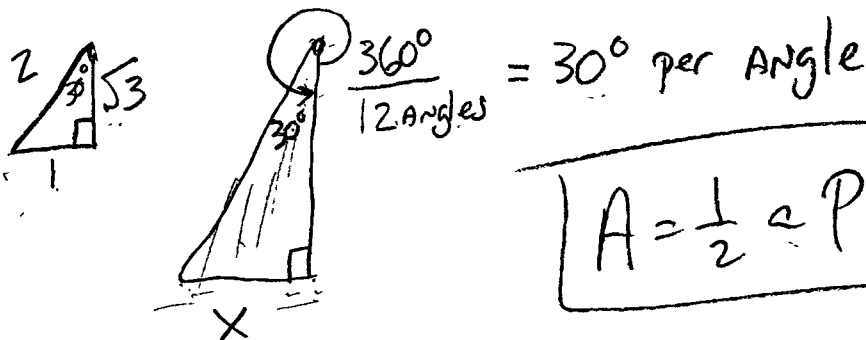
$$= \frac{1}{2} (175)$$

$$A = 87.5 \text{ ft}^2$$

(156)  $A = ?$



Assume a REGULAR polygon



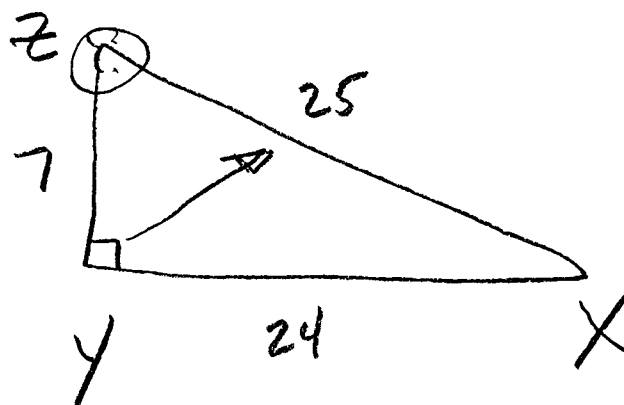
$$A = \frac{1}{2} a P$$

$$x = \frac{5\sqrt{3}}{\sqrt{3}} = 5 \quad \therefore P = 60$$

$$A = \frac{1}{2} a P = \frac{1}{2} (5\sqrt{3}) 60$$

$$A = 150\sqrt{3} \text{ units}^2$$

(167)

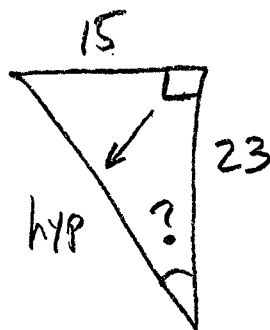


$$\cos z = ?$$

SOH CAH TOA

$$\cos z = \frac{7}{25}$$

(181)



Toa

$$\tan x = \frac{15}{23}$$

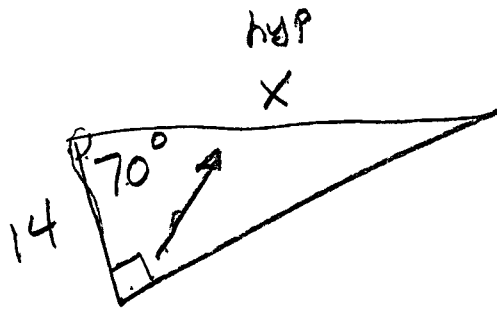
$$\tan^{-1}\left(\frac{15}{23}\right) = x$$

E

$$\tan^{-1}(0.6522) = x$$

$$33^\circ \approx x$$

(169)

 $X = ?$ SOH CAH ~~TOA~~

$$X \cos 70^\circ = \frac{a}{h} = \frac{14}{X} \cdot X$$

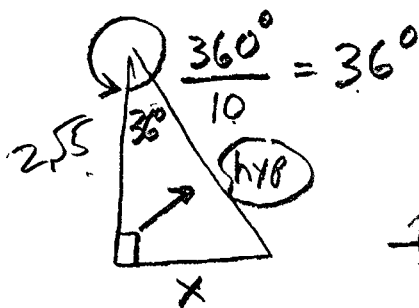
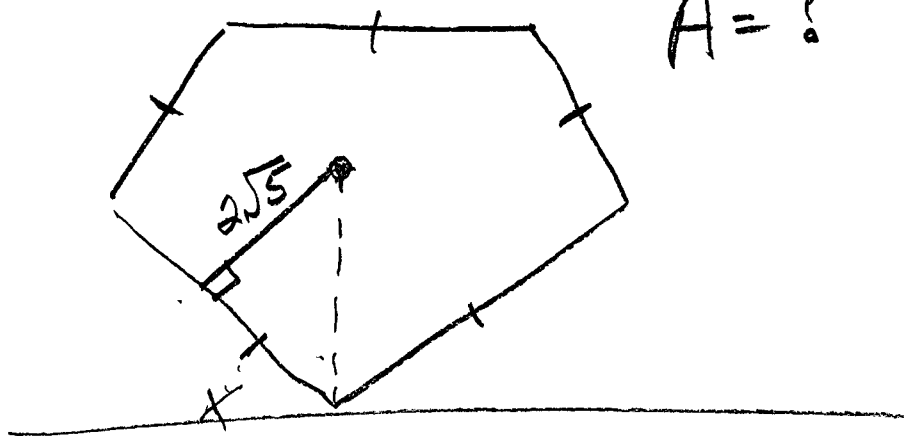
$$\frac{X \cos 70^\circ}{\cos 70^\circ} = \frac{14}{\cos 70^\circ}$$

$$X = \frac{14}{(.3420)} \quad \square$$

$$X = 40.9\text{③}57$$

$$\boxed{X = 40.9 \text{ units}}$$

EX



$$\tan 36^\circ = \frac{o}{a} = \frac{x}{2\sqrt{5}}$$

$$2\sqrt{5} \tan 36^\circ = x$$

$$(2\sqrt{5})(.7265) = x$$

$$1.4531\sqrt{5} = x$$

$$\therefore P = 10(1.4531\sqrt{5}) = 14.531\sqrt{5}$$

$$A = \frac{1}{2}(2\sqrt{5})(14.531\sqrt{5})$$

$$A = 5(14.531) = 72.65$$

$$A = 72.7 \text{ units}^2$$