

Geometry Thurs. 4-11-13 **CLASS NOTES**

④ $m = ?$ $m = \frac{1}{2} (b_1 + b_2)$
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$(2x+3)$ $2x+3 = \frac{1}{2} [(3x-2) + (16)]$

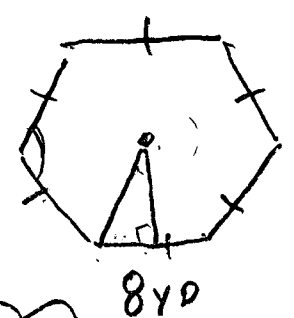
$2(2x+3) = \frac{1}{2} [3x+14] \cdot 2$

$4x+6 = 3x+14$
 $-3x \quad -6 \quad -3x \quad -6$

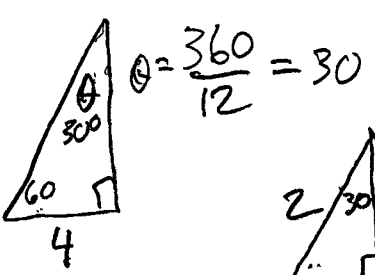
$x = 8$

$x = 2(8) + 3 = 19$

22



6 sides $\Rightarrow A_{\text{reg. poly}} = \frac{1}{2} a P$



$= \frac{1}{2} a 48 \text{ yds}$

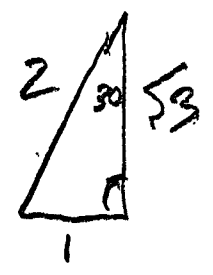
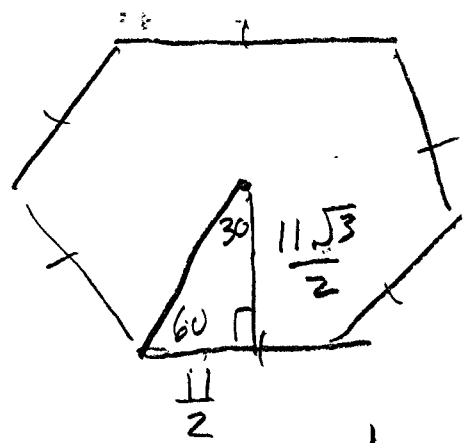
$2 \sqrt{3} = \frac{1}{2} (4\sqrt{3}) 48$

$A = 96\sqrt{3} \text{ yd}^2$

$A = 96(1.7321)$

$A = 166.3 \text{ yd}^2$

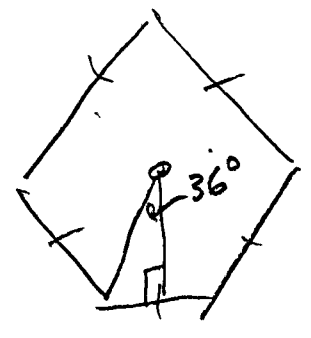
20 A = ?



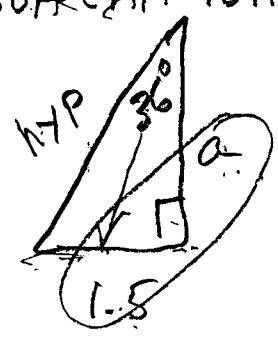
$P = 66$

$$A = \frac{1}{2} \left(\frac{11\sqrt{3}}{2} \right) 66 = \boxed{\frac{363\sqrt{3}}{2}}$$

22



SOME CAN TO A



$P = 15A$
SIDE = 3 ft

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

$$= \frac{1}{2} (2.0647) 15$$

$$a \tan 36 = \frac{1.5}{a} \cdot a$$

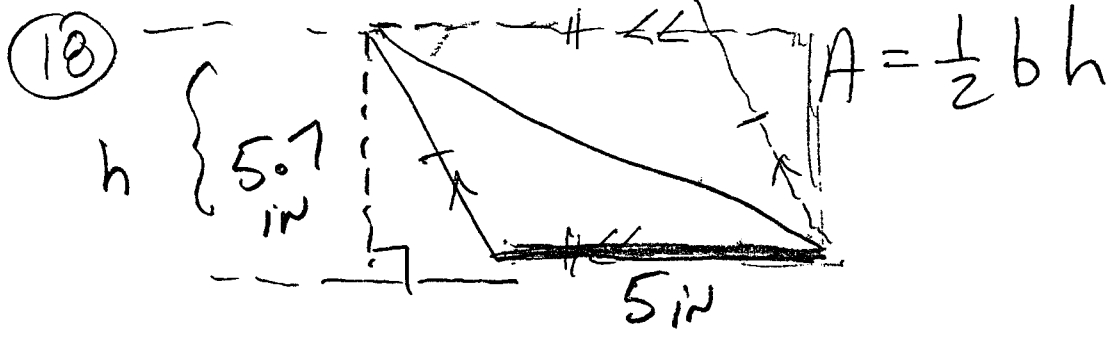
$$\frac{a \tan 36}{\tan 36} = \frac{1.5}{\tan 36}$$

$$= 15.485$$

$$\boxed{A = 15.5}$$

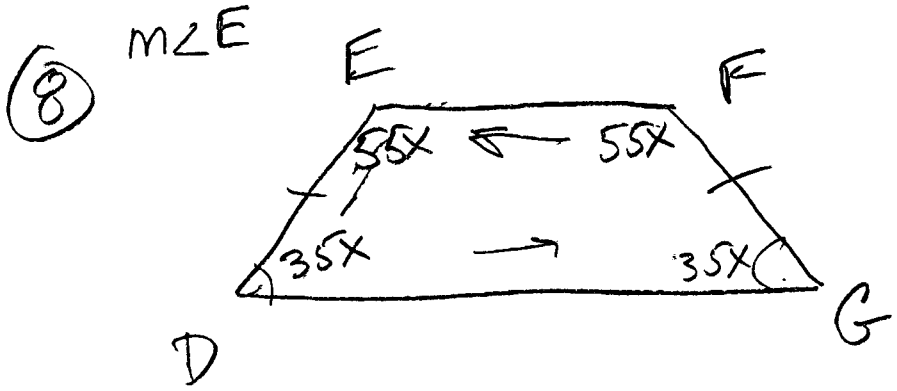
$$a = \frac{1.5}{.7265}$$

$$\boxed{a = 2.0647}$$



$$A = \frac{1}{2} (5) (5.7) = \frac{28.5}{2}$$

$$A = 14.25 \text{ in}^2$$



ISOSCELES TRAPEZOID

$$55x + 35x = 180^\circ$$

$$\frac{90x}{90} = \frac{180^\circ}{90} = 2$$

$$m\angle E = 55(2) = 110^\circ$$

$x = 2$

(25) $V = ?$ Pentagonal pyramid

FD
2

$$V = \frac{1}{3} B h$$

$$a = 4.1$$

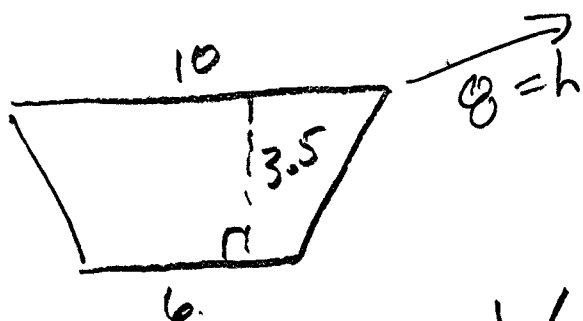
$$P = 30.12$$

$$V = \frac{1}{3} \left(\frac{1}{2} (4.1) 30 \right) 9$$

$$V = 3 (4.1) (15)$$

$$V = 45 (4.1) = 184.5 \text{ m}^3$$

(24) $V = ?$ trapezoidal prism $\Rightarrow V = B \cdot h$



\uparrow NO $\frac{1}{3}$

$$\therefore V = (20) 8$$

$$V = 224 \text{ m}^3$$

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

$$= \frac{1}{2} (10 + 6) 3.5$$

$$= \frac{1}{2} (16) 3.5$$

$$= 8 (3.5) = 28 \text{ Base Area}$$