

Warm-up 1/13/17

Find the values of the variables for this isosceles trapezoid.

$$9x + 24 = 105$$

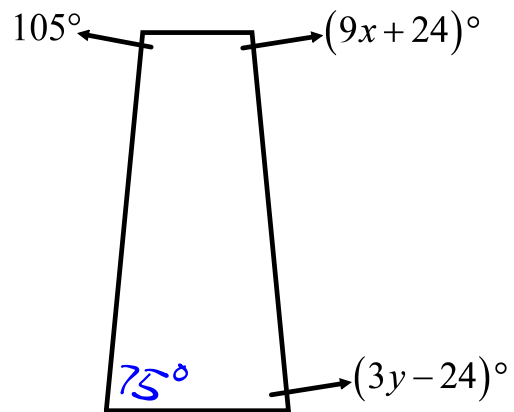
$$9x = 81$$

$$x = 9$$

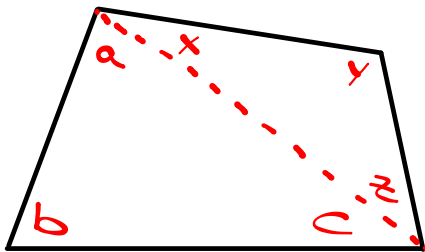
$$3y - 24 = 75$$

$$3y = 99$$

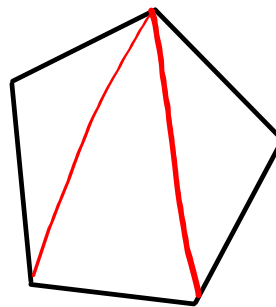
$$y = 33$$



Pg. 528-531



$$\begin{aligned}
 &+ \begin{cases} x + y + z = 180 \\ a + b + c = 180 \end{cases} \\
 &\quad \rightarrow 360 \\
 &\quad \rightarrow 2(180)
 \end{aligned}$$



$$\begin{aligned}
 &3(180) \\
 &540
 \end{aligned}$$

$$(n - 2)180$$

Pg. 533

1.

$$(10-2) 180$$

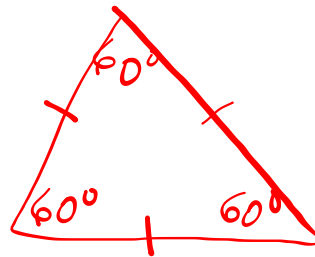
$$1440$$

2.

$$\frac{1440}{10} = 144$$

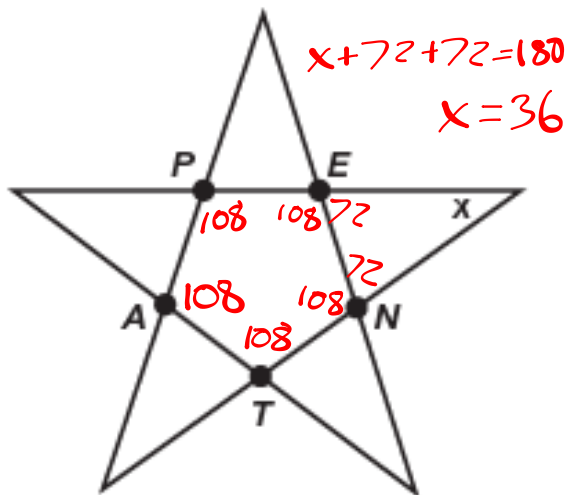
Number of Sides of Regular Polygon	3	4	5	6	7	8
Sum of Measures of Interior Angles	180	360	540	720	900	1080
Measure of Each Interior Angle	60	90	108	120	128.6	135

$$(5-2) 180$$



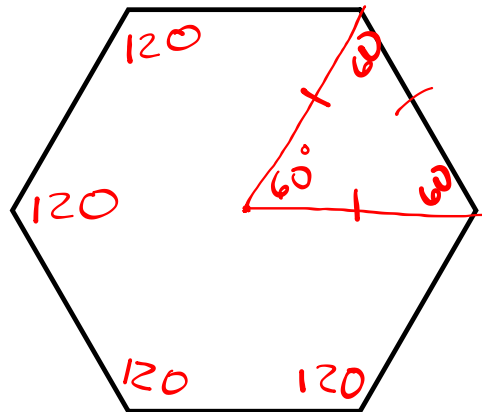
Pg. 534

1.



$$(5-2) 180 = 540$$

$$\frac{540}{5} = 108$$



$$(6-2) 180 = 720$$

$$\frac{720}{6} = 120$$