

P. No: Exp: 1-6 (a): Written: 1, 3, 5, 7, 8

① 50

① $X=60$

② 65

③ $X=100$

③ 87

⑤ $X=90$

④ 92

⑦ $X=100$

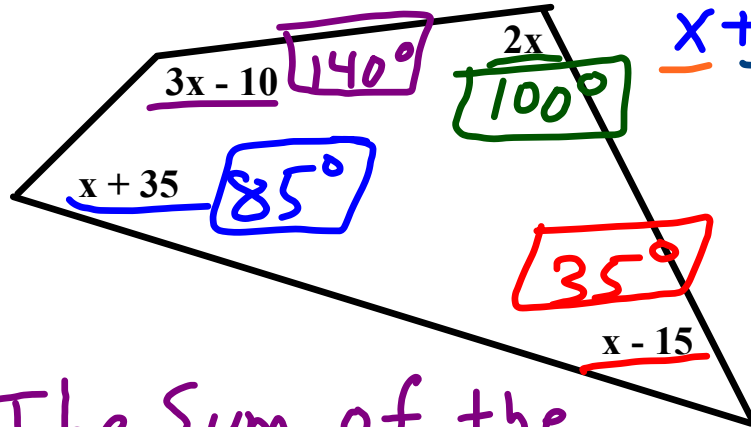
⑤ 75, 75

⑥ 141, 141

⑧ $X=50$

5.7 cont

Feb. 22, 2007



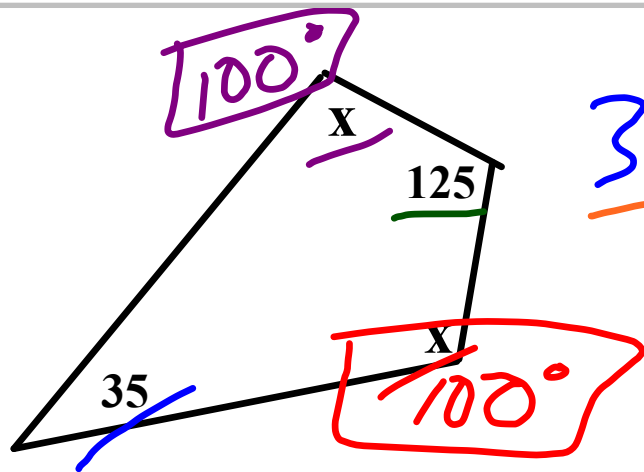
The Sum of the
 \angle 's of a Quad
equal 360° .

$$\underline{x + 35} + \underline{x - 15} + \underline{2x} + \underline{3x - 10} = 360$$

$$\begin{array}{r} 7x + 10 = 360 \\ -10 \quad -10 \\ \hline \end{array}$$

$$\frac{7x}{7} = \frac{350}{7}$$

$$\underline{x = 50}$$



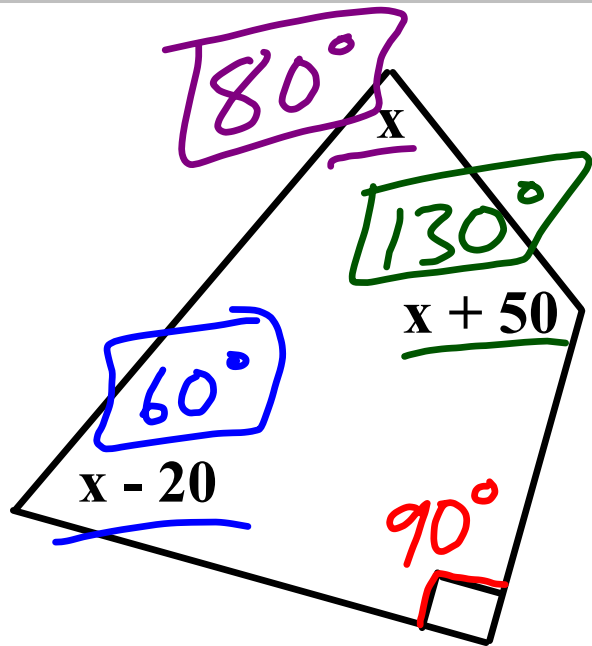
$$\underline{35} + \underline{x} + \underline{125} + \underline{x} = 360$$

$$2x + 160 = 360$$

$$\underline{-160} \quad \underline{-160}$$

$$\frac{2x}{2} = \frac{200}{2}$$

$$\underline{x = 100}$$



Solve for x .

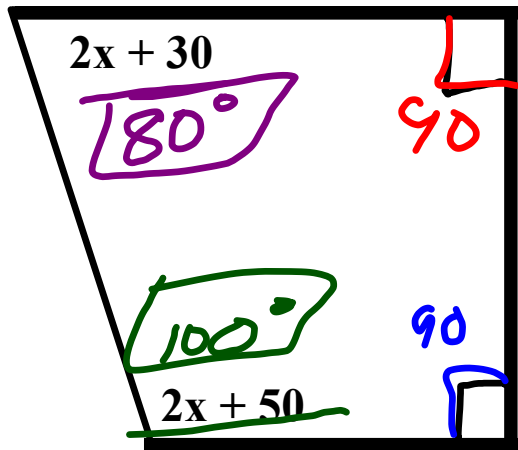
$$\underline{x - 20} + \underline{90} + \underline{x + 50} + \underline{x} = 360$$

$$3x + 120 = 360$$

$$\underline{-120 \quad -120}$$

$$\frac{3x}{3} = \frac{240}{3}$$

$$\underline{x = 80}$$



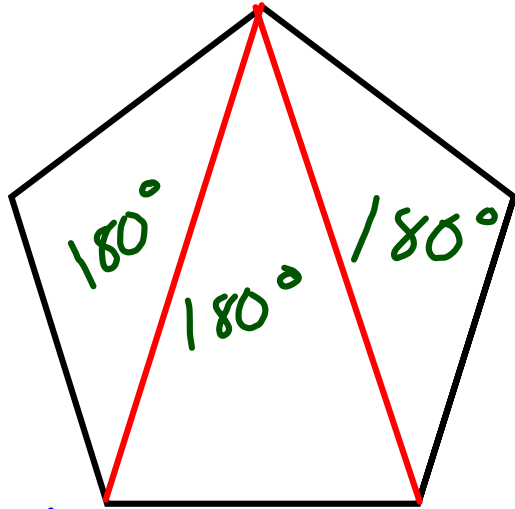
$$\underline{2x + 30} + \underline{90} + \underline{90} + \underline{2x + 50} = 360$$

$$4x + 260 = 360$$

$$\underline{-260} \quad \underline{-260}$$

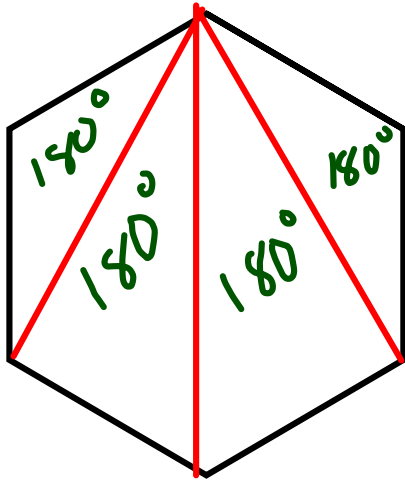
$$\frac{4x}{4} = \frac{100}{4}$$

$$\underline{x = 25}$$



5 Sides \Rightarrow 3 Δ 's

So a Pentagon
Has 540°



6 Sides \Rightarrow 4 Δ 's

So a Hexagon
Has 720°

Shape	# of Sides	# of Δ 's	Total Degrees
Triangle	3 Sides	1 Δ	180
Quad.	4 Sides -2	2 Δ	360°
Pentagon	5 Sides -2	3 Δ	540°
Hexagon	6 Sides -2	4 Δ 's	720°
Heptagon	7 Sides -2	5 Δ 's	900°
...
n-gon $n \geq 3$	n Sides	$(n-2)$ Δ 's	$(n-2)180$

O.T.L.

Pg 173. 30-41(a)

② Chapter Test

~~Tuesday~~
~~Friday~~