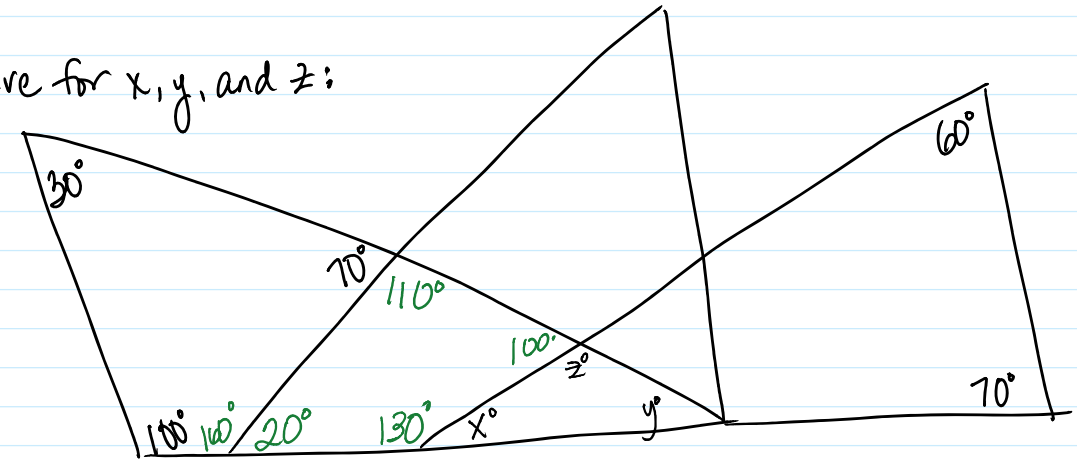
7.1

Tuesday, November 24, 2015 9:34 AM

① Solve for x, y, and z:



$x = 50$

$y = 50$

$z = 80$

② The ratio of three angles in a triangle is 2:3:7. Find the average of the 3 measures.

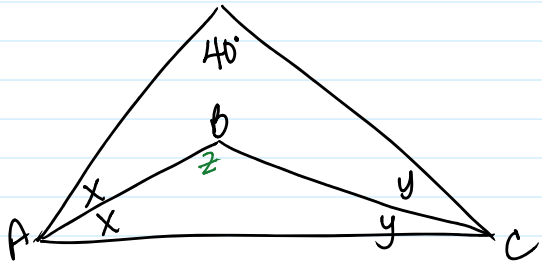
$2x + 3x + 7x = 180$

$12x = 180$

$x = 15$

$\frac{30 + 45 + 105}{3} = 60$

③ Solve for $m\angle ABC$



$2x + 2y + 40 = 180$

$2x + 2y = 140$

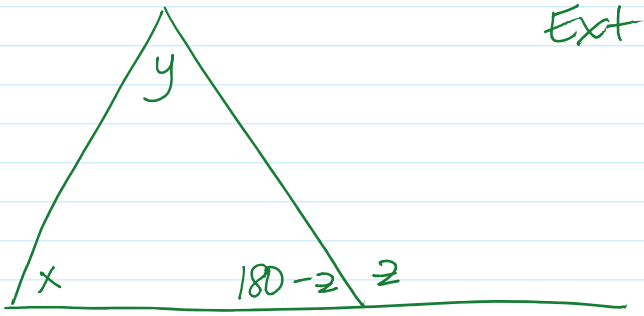
$x + y = 70$

$x + y + z = 180$

$70 + z = 180$

$z = 110$

Exterior angles in Triangles



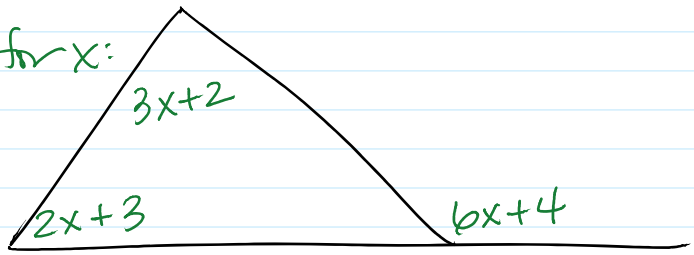
Ext ∠ Rl

$x + y + 180 - z = 180$

$x + y = z$

$Ext = Rl_1 + Rl_2$

Solve for x:

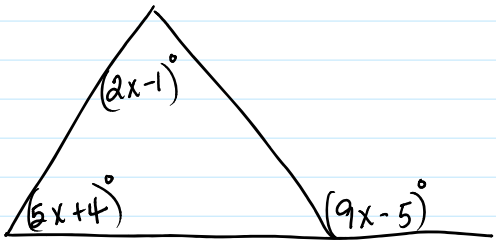


$6x+4 = 3x+2+2x+3$

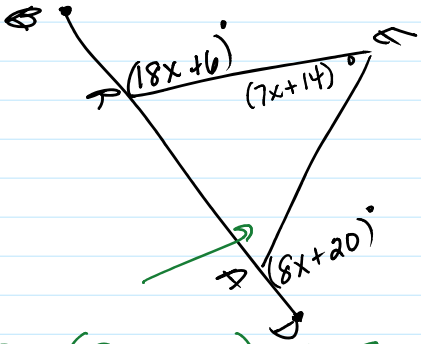
$6x+4 = 5x+5$

$x = 1$

④ Solve for x:



⑤ Find m< EAR



$180 - (8x+20) + 7x+14 = 18x+6$

$-8x+160+7x+14 = 18x+6$

$-x+174 = 18x+6$

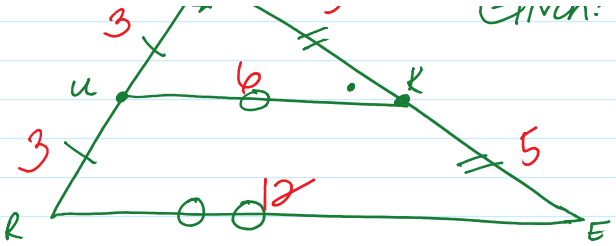
$168 = 19x$

$\frac{168}{19} = x$

Midline Thm:

Given: Midpts

a. $\overline{UK} \parallel \overline{RE}$

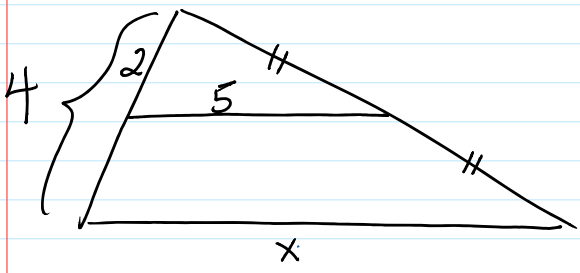


Given: Mid pts

a. $\overline{UK} \parallel \overline{RE}$

b. $2UK = RE$

⑥ Solve for x:



⑦ Find the perimeter of the inside square, found by connecting midpoints of sides of the larger square.