Warmup 2/(The number of angles in this picture:

DO ALL OF THESE THINGS:

- Write "Protractor CFU" on your warmup page for today.
- Write your name on your warmup page and turn it in to the tray yourself.
- Get a protractor.
- Sit back down.

If you get one wrong, you MUST do corrections until it is right.

If you have a bad/faded protractor, try to use it, but you can wait until a better one is available and turn in your CFU later.

QUIZ IS MONDAY!!!

- Measuring Angles with a protractor
- Complementary/Supplementary/Vertical
- Finding angle measures with parallel lines and a transversal
- Corresponding/Alternate Interior/Alternate Exterior/Same-side interior
- Angle sums of triangles (Today)

(Btw, if you want to do your ALEKS on Monday night, that will be fine this week. There will be no other homework Monday night.)

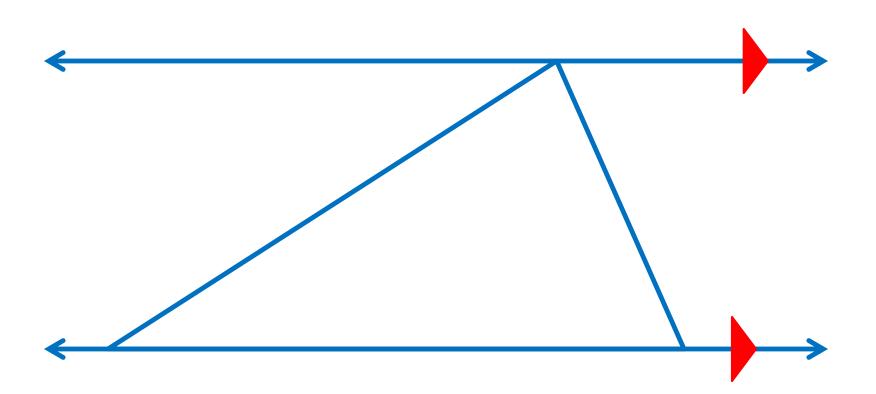


I WILL COLLECT THESE ON MONDAY!!!

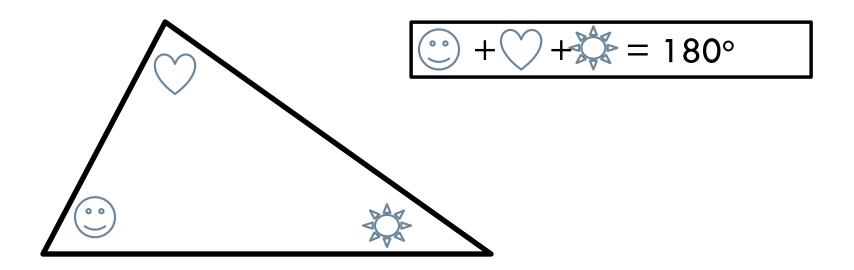
NEW TOPIC: ANGLES OF TRIANGLES

- □ Will be completely on whiteboards.
- There is ONE rule to write down will be on the homework page.

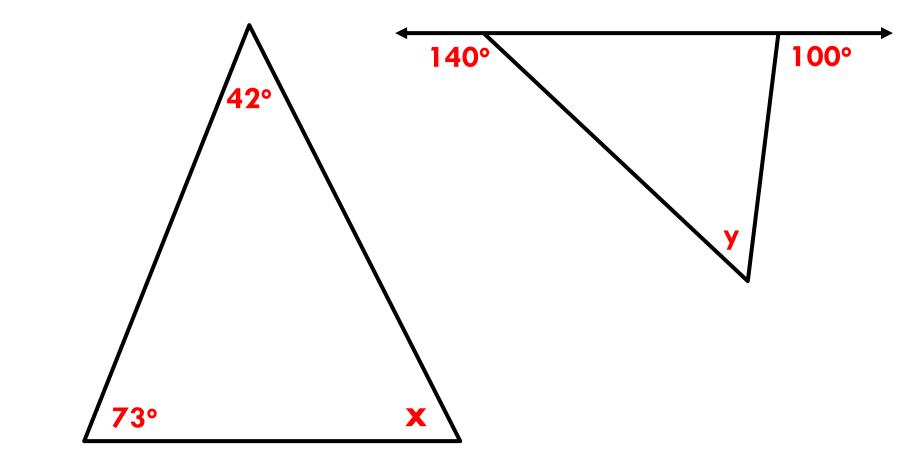
PROVING the angle sum of a triangle...



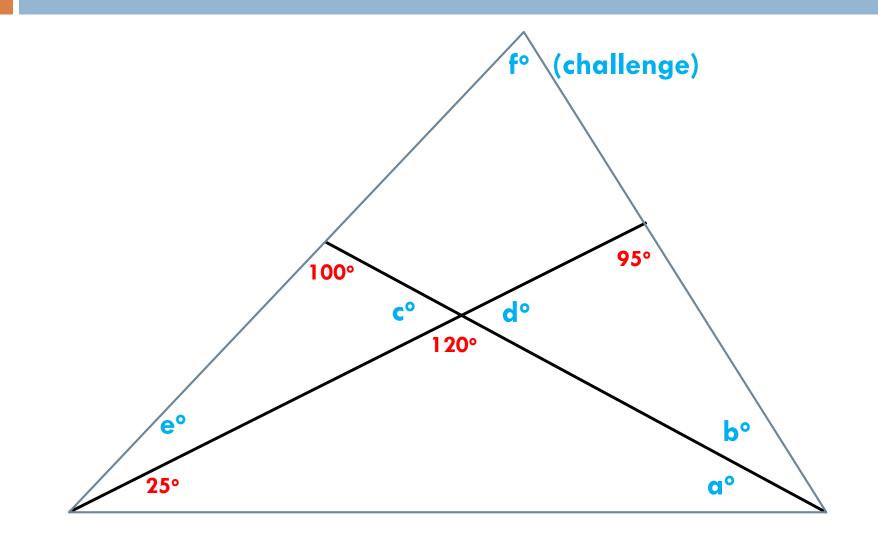
Interior Angles of a Triangle: Their sum is always 180°!!!!!



Find the missing angles!

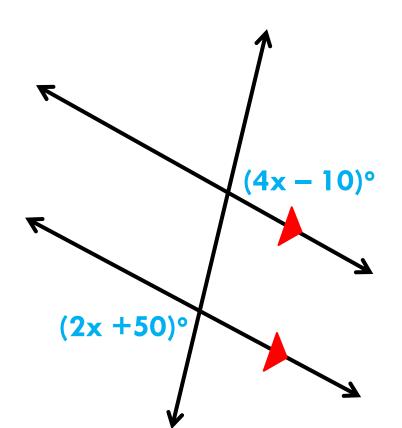


Find all angle measures:



With algebra...

 \Box Find the value of x.

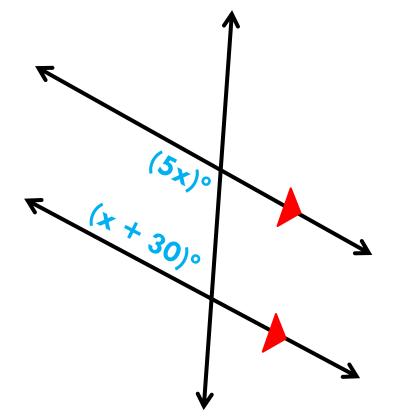


Alt. Ext: congruent 2x + 50 = 4x - 10x = 30

With algebra...

□ Find the measure of both angles.

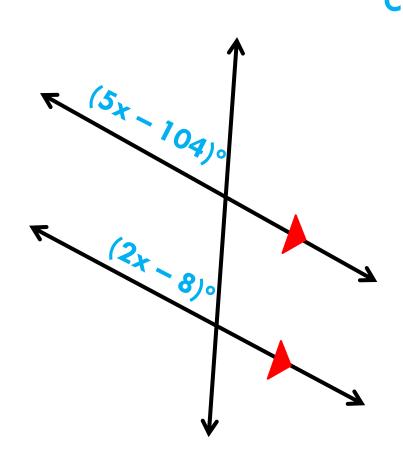
Same-side interior: supplementary



(5x) + (x + 30) = 180 6x + 30 = 180 x = 25Top angle: $5 \cdot 25 = 125^{\circ}$ Bottom angle: $25 + 30 = 55^{\circ}$ Check: 125 + 55 = 180!

With algebra...

□ Find the measure of both angles.

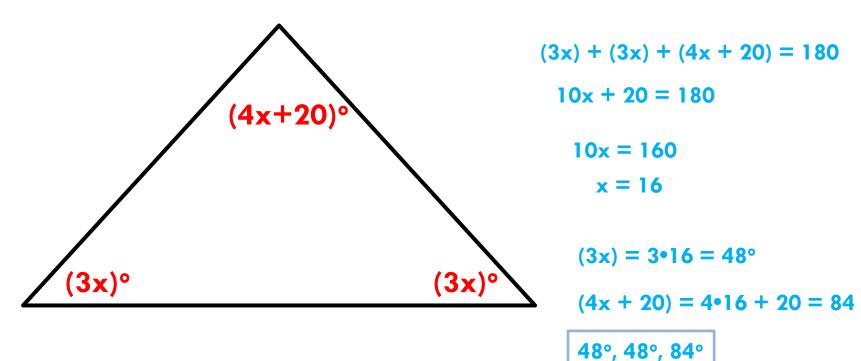


Corresponding: congruent 5x - 104 = 2x - 8 3x - 104 = -8 3x = 96x = 32

> Top angle: 5•32 – 104 = 56° Bottom angle: 2•32 – 8 = 56° Check: They're the same!

Algebra Connection...

Find the measure of each angle:



Check: 48 + 48 + 84 = 180!

HOMEWORK

□ Finish the worksheet

THE ANSWER KEY WILL BE ONLINE – STUDY THIS AFTER YOU FINISH!!!