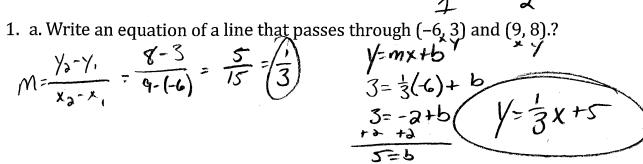
Name: <u>ke</u>

Answer each of the following questions completely. Round to the nearest tenth if you have co.

Q

$$M = \frac{y_3 - y_1}{x_3 - x_1} = \frac{8 - 3}{9 - (-6)} = \frac{5}{15} = \frac{3}{3}$$



B. What is the equation of a line parallel to the previous line and goes through (-3,5)?

$$5 = \frac{1}{3}(-3) + b$$

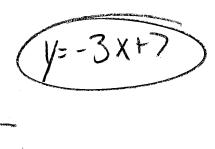
$$5 = -1 + b$$

$$4 = -1 + b$$

$$6 = b$$

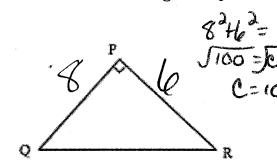
$$V = \frac{1}{3}x + 6$$

C. What is the equation of a line PERPENDICULAR to that line and goes through (5,-8)?



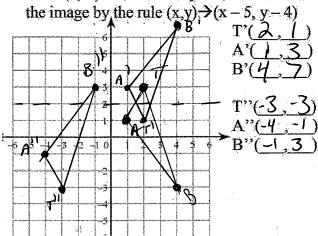
*These have been in your homework and you did this last year, I will also make sure I do these in class and go over them. If you need more practice, google "equations of parallel and perpendicular lines" or come in for help.

2. Given PQ = 8in and the area of ΔPQR is 24 square inches, then the length of QR



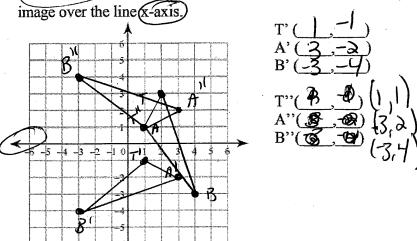
Preflect A TAB if T(2,3), A(1,1),

and B(4,-3) over the line y = 2, then translate

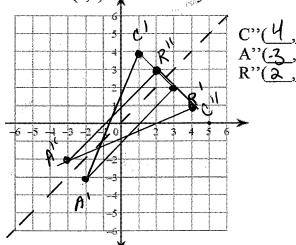


Rotate ATAB if T(2,3), A(1,1), B(4,-3)

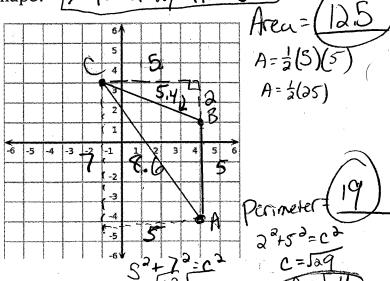
90° clockwise about the origin, then reflect the



Reflect ΔC'A'R' if C'(1,4), A'(-2,-3), and R'(3,2) over the line y = x



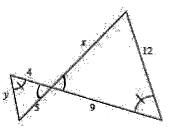
DWhat is the area and the perimeter of the L W/ Flat Side shape? # 90°

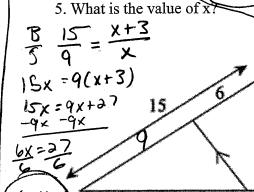


P=5.4+8,6+5

3

4. What is the value of x and y?



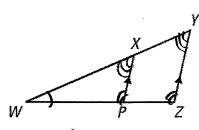


X

Name:_____

6. Are the following triangles similar? If they are, explain how you know. If angles are not originally marked, explain how you know they are equal. If they are, complete the similarity statement. (NOTE: YOU CAN ONLY USE SIDE LENGTHS THAT ARE GIVEN, YOU CANNOT USE UNKNOWN SIDES UNLESS YOU PROVE THEY ARE SIMILAR)

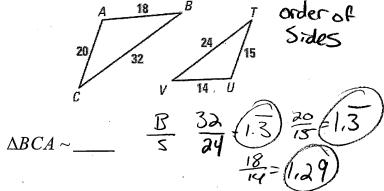
a.



ΔWXP ~ WYZ

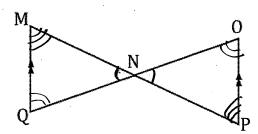
1.) LW is Shared

b.

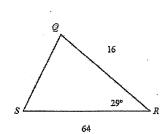


No, Sides Not proportional

C.



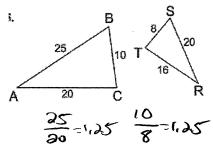
d.



U 8 8 7 29°

ANQM ~ NPO LN=LN → Vertical AA LQ= CO → Alt. interior LM=LP → $\Delta QRS \sim VTU \qquad \frac{B}{S} \qquad \frac{64}{32} = 2 \frac{16}{8} = 2$ $SAS \qquad \angle R = \angle T$

e.



DABC ~ ARST 20-1.25

f.

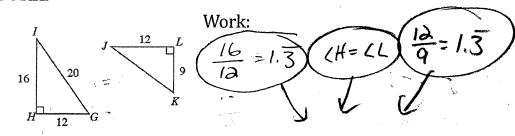
L's Not

 $\Delta QRS \sim$ _____

Name:		

7. Use a Flowchart to determine if the the triangles are similar or not. If they are not, describe why they aren't. If they are, state the theorem that makes them similar. I MUST SEE WORK.

a.



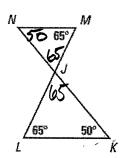
a. Similar? 125

DJLK ~ DIHG

by SAC

If Not, Why Not? _

b.

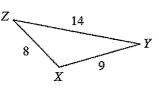


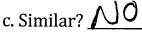


b. Similar?

 $\Delta JLK \sim \Delta$ TM

If no, why not? _





 $\Delta YXZ \sim \Delta$