E
$$(-2, -3)$$
, $F(5, 4)$
c. The slope of \overline{EF} .
 $M = \frac{-7}{7} = 1$

d. The equation of the perpendicular bisector of \overline{EF} . $\mathcal{G} = \frac{1}{2} = 1 \left(x - \frac{2}{2} \right)$

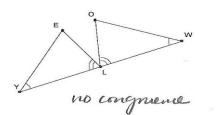
 $\mathcal{Y} = \chi - 1$ 2. In ΔKRZ , $\angle K \cong \angle Z$, KR = 9x + 2, RZ = 3x + 20, and KZ = 6x + 14. Determine the length of each side of the triangle.

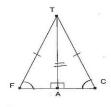
$$9x+2=3x+20$$
$$x=3$$

- 3. Given the diagram to the right:a. Determine the value of x and y.

b. Given that FH = 13, GH = 5, find the area of the

 $A = \frac{1}{2} \cdot 12 \cdot 5 = \boxed{30}$ Given the following diagrams, identify whether the triangles are congruent. If so, write out the congruent triangles. Pay attention to the order of the triangle vertices. State your reason.





110°