

Name: _____

Date: _____

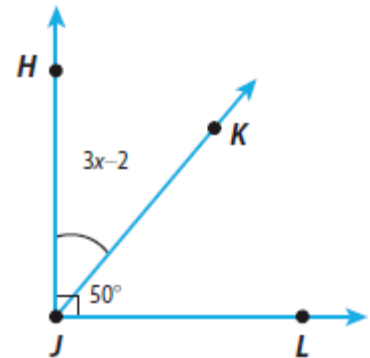
Topic 3: Angle Relationships with Algebra

Classwork 10.3

Aim: How can we use algebraic equations to solve geometry problems?

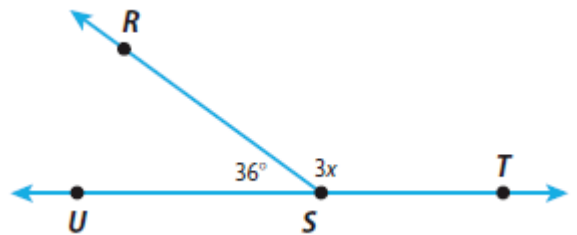
Example 1:

- Identify the **angle relationship** in the diagram.
- Write an algebraic equation for the angle relationship shown in the figure and solve for x .
- Find the measure of $\angle HJK$.



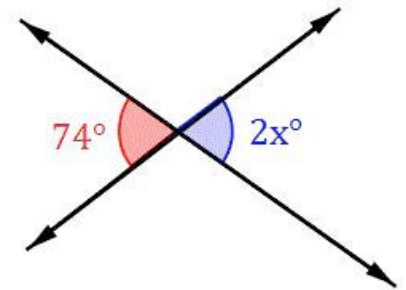
Example 2:

- Identify the **angle relationship** in the diagram.
- Write an algebraic equation for the angle relationship shown in the figure and solve for x .
- Find the measure of $\angle RST$.



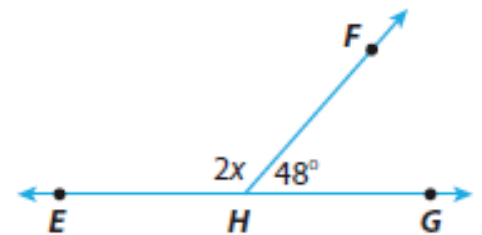
Example 3:

- a) Identify the ***angle relationship*** in the diagram.
- b) Write an algebraic equation for the angle relationship shown in the figure and solve for x.



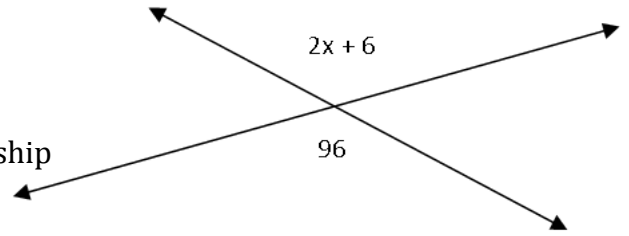
On Your Own!

- 1) a. Identify the ***angle relationship*** in the diagram.
- b. Write an algebraic equation for the angle relationship shown in the figure and solve for x.



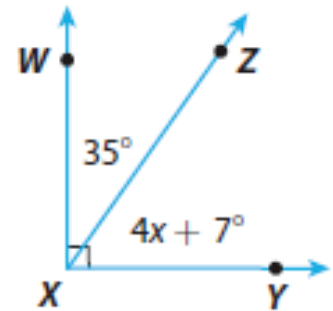
- c. Find the measure of $\angle EHF$.

2) a. Identify the **angle relationship** in the diagram.



b. Write an algebraic equation for the angle relationship shown in the figure and solve for x .

3) a. Identify the **angle relationship** in the diagram.



b. Write an algebraic equation for the angle relationship shown in the figure and solve for x .

c. Find the measure of $\angle ZXY$.