



**Part A: Solving Equations:**

**Objectives:**

- Solve one-step equations.
- Solve multi-step equations.
- Solve equations with the variable on each side.

**Solve the following equations:**

1.  $x + 7 = 12$

2.  $y - 3 = 10$

3.  $\frac{a}{4} = 5$

4.  $c - 22 = 54$

5.  $113 = g - 25$

6.  $-4a = 48$

7.  $\frac{c}{4} = -\frac{9}{8}$

8.  $g + 5 = 33$

9.  $-6 + c = 32$

10.  $11x - 4 = 29$

11.  $\frac{a+7}{8} = 5$

12.  $3m + 4 = -11$

13.  $5n - 3 = 2n + 6$

14.  $3w + 2 = 7w$

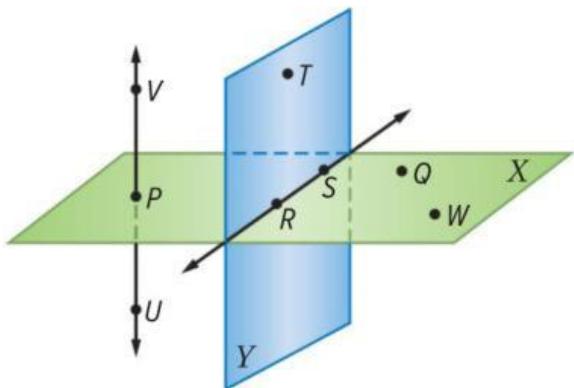
15.  $13x + 2 = 4x + 38$

## Part B: Geometry Basics:

## Objectives:

- Identify and model points, lines, and planes.
- Measure and classify angles.
- Identify and use special pairs of angles.

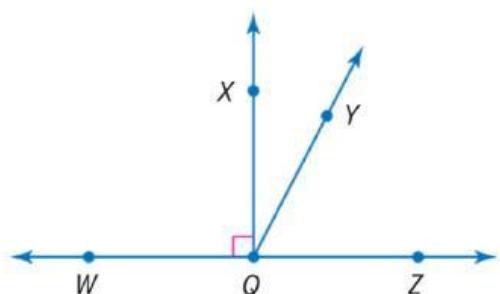
I) Use the figure to complete each of the following:



1. Name another point that is collinear with points  $U$  and  $V$ .
2. What is another name for plane  $Y$ ?
3. Name a line that is coplanar with points  $P, Q$ , and  $W$ .

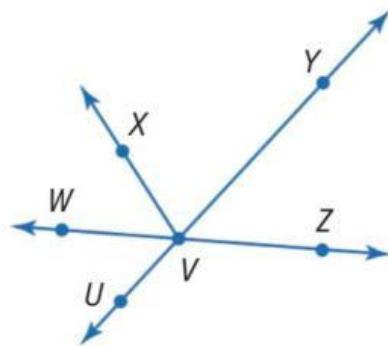
**II) Classify each angle as acute, right, or obtuse.**

4.  $\angle WQY$ .
5.  $\angle YQZ$ .
6.  $\angle XQZ$ .



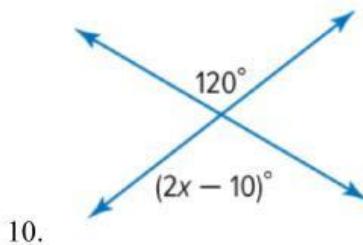
**III) Name an angle pair that satisfies each condition.**

7. Two acute vertical angles.

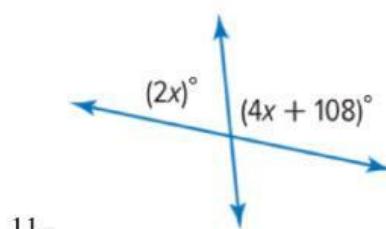


8. Two obtuse adjacent angles.

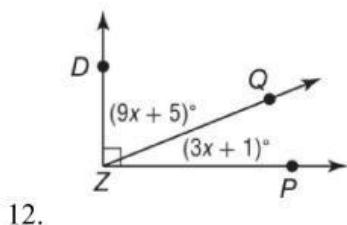
9. Two supplementary adjacent angles.

**IV) Find the value of each variable.**

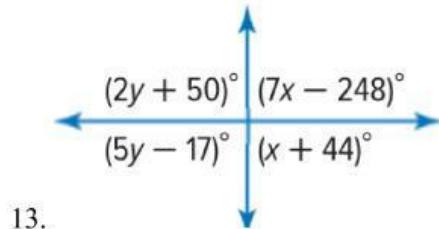
10.



11.



12.



13.