

**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. $3m + 4 = -11$

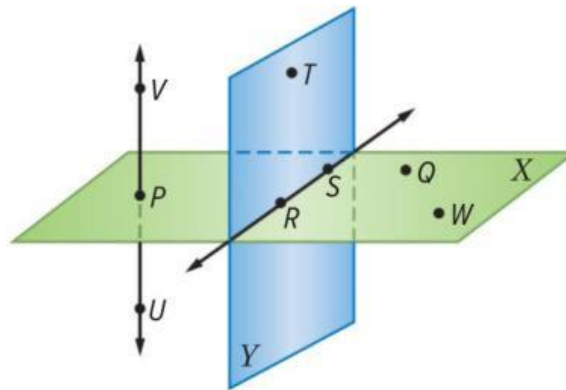
13. $5n - 3 = 2n + 6$

14. $3w + 2 = 7w$

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

**Part B: Geometry Basics:****Objectives:**

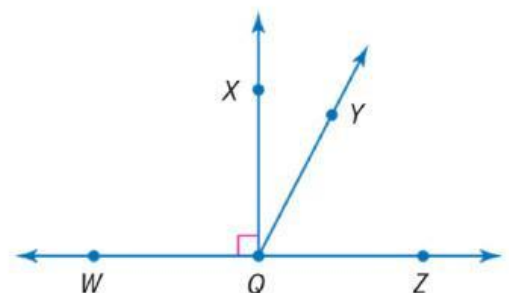
- Identify and model points, lines, and planes.
- Measure and classify angles.
- Identify and use special pairs of angles.

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 .

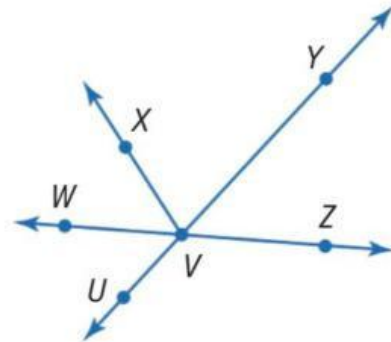
II) Classify each angle as acute, right, or obtuse.

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.**