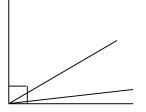
- 1. Give *one example* of each of the following: ( /5)
  - (a) Expression
  - (b) Equation that is Solved for the Unknown
  - (c) Equation that Expresses a Mathematical Relationship
  - (d) Identity
  - (e) A Value that Satisfies the Equation  $x^2 = 64$
- 2. For the given equation, complete the flowchart, solve the equation by performing operations to **both sides** and check your solution. (10)

Equation	Flowchart	Solve the Equation by Performing Operations to B.S.	Check your Solution	
$\frac{3}{2}x + \frac{1}{2} = \frac{3}{4}$			L.H.S.	R.H.S.

**3.** Solve the given equation by performing operations to both sides. ( /9)

$$\frac{1}{4}(2y-7) + \frac{y-5}{6} = -3 - (5y-8)$$

**4.** Two or more angles are complementary if their sum is 90°. In the diagram at the right, three angles are complementary. One angle is *one-half* of the largest angle. The smallest angle is *one-sixth* of the largest angle. *Use an equation* to find the measure of each angle. ( /7)



**5.** The triangles shown below have the *same perimeter*. *Use an equation* to find the side lengths of each triangle. ( /10)

