Solving Multi-Step Equations Assignment

1) Find the error:

$$34x - 94 = 18(x - 39)$$

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$$\frac{+94 + 94}{16x}$$

$$x = 3.4375$$

3)
$$-33x + 19(1 - 12x) = 33x + 19$$

4) 18.338 - 6.1r = 7.4(1.3r + 6.23) - 3.1r

2) 27(x + 34) = -7 - 10x

5)
$$-\frac{13}{12} - \frac{4}{3}n = -\frac{1}{3}(3n + \frac{11}{4})$$

6)
$$-\frac{5}{4}\left(r+\frac{3}{2}\right)=-\frac{17}{3}-\frac{7}{3}r$$

7)
$$-9(b+10) = 9(b+4)$$

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

Determine if the solution is zero, there is no solution, or there are infinitely many solutions.

9)
$$12r - 6(2r + 1) - 4 = -106$$

10)
$$6(5v + 3) + 4v + 7 = 25 - 9v$$

11)
$$-3(8-8k) = -8 + 3(8k-5)$$

12)
$$4(10-9n) = 4n - 8(5n - 5)$$

Set up an appropriate equation, solve the equation, and then answer the question in the statement.
13) Angle A and Angle B are vertical angles. The measure of angle A is represented by the expression $24x - 5$ and the measure of angle B is represented by the expression $3(5x+7)+10$. a) What is the value of x ?
b) What is the measure of angle A?
14) Angle A and Angle B are supplementary angles. The measure of angle A is represented by the expression $2(47 - 3x) - x$ and the measure of angle B is represented by the expression $3(3x+24)$. a) What is the value of x ?
b) What is the measure of angle A and angle B?
15) Angle A and Angle B are alternate interior angles. The measure of angle A is represented by the expression $2(2m+1) + 11m$ and the measure of angle B is represented by the expression $5m + 2(4m + 7)$. a) What is the value of x ?
b) What is the measure of angle A and angle B?
16) Angle A and Angle B are complementary angles. The measure of angle A is represented by the expression $4w + 55$ and the measure of angle B is represented by the expression $-7(w - 2)$. a) What is the value of x ?
b) What is the measure of angle A and angle B?