Algebra Review #15 SHOW HOW YOU SOLVED EACH PROBLEM

1. Fill in the properties that justify each step:	
7x + 9 = 10x - 7	Given
9 = 3x - 7	
9 + 7 = 3x - 7 + 7	
9 + 7 = 3x + 0	
16 = 3x + 0	
16 = 3x	
$5\frac{1}{3} = x$	
3	
. 1	
$x = 5\frac{1}{3}$	

2. Solve using the order of operations. Write your final answer as a fraction.

If x = -1 and $y = \frac{1}{6'}$, then:

5*p* – 6*y*

3. Tell whether the equation has one has one, none, or infinite solutions:

$$4 - (p + 3) = -4p + 3$$

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4. Roger pays a certain amount every month for TV service. He receives a coupon for \$45 off his bill for the year. If Roger pays \$622.56 this year, how much does he normally pay each month for TV?

5. Solve the following equation:

$$\frac{7}{10} = \frac{7}{2}(x+4)$$

6. Name the properties in each situation.

If
$$EF = GH$$
 and $GH = JK$, then $EF = JK$

If
$$\frac{1}{2}x - (9 + 2x) = 4y$$
 then $4y = \frac{1}{2}x - (9 + 2x)$

7. What is the value of the following:
 9. Solve for variable r:

$$\sqrt{14} \cdot 2\sqrt{21}$$
 $P = \frac{4-r}{2g}$

 8. Simplify the radical.
 10. Solve for variable r

 $\sqrt[3]{1296}$
 $r(5x) = st$