Algebra Review #5 *SHOW HOW YOU SOLVED EACH PROBLEM*

NAME _____

1. Convert:

   a. 0.5 into a fraction:

   b. $\frac{2}{12}$ into a decimal:

   c. $\frac{4}{19}$ into a percent (round to tenth):

2. Solve the equation:
$$24 = 6(x - 3)$$

3. Simplify by using the distributive property and combining like terms:

$-2(-7 - r)$	$6j - 9j + 8j - 3k$
$3t - 5(s - t)$	$-(p + q) + 7(p - q)$

4. Simplify using the calculator:
$$\text{If } w = 15, x = -2$$

$$\frac{1}{5}w(w + |x^3|)$$

5. Solve the expression:

$$6(6v + 6) - 5 = 1 + 6v$$

6. Translate into algebraic form:
Ten multiplied by the sum of 4 and a number is equal to the difference of 5 and a number divided by 6

7. Simplify the radical expression:

$$\sqrt{92}$$

9. Simplify the radical expression:

$$\sqrt{112}$$

8. Simplify the radical expression:

$$\sqrt{34}$$

10. Simplify the radical expression:

$$\sqrt{575}$$