Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Isolating Variables #2

**Circle the variable you are trying to isolate. Find the value of the variable.**

1. 10 – 3x = -14 + x
2. 7(y – 13) = 77
3. 3x + 16 = 46
4. $\frac{2j}{7}=4$
5. -2g – 19 = 23
6. 8 + 6a = 48 – 2a
7. $\frac{p}{3}-6=4$
8. 8(2x – 10) = 14x
9. $\frac{2x}{5}=8$
10. $3\left(14-2x\right)=60$
11. -9g + 24 = 6g – 21
12. $\frac{6x}{4}=12$
13. -6(14 + x) = 36
14. $11-7x=2x-43$

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Isolate the following variables

$12\sqrt{x}-10=50$ $3m^{2}=48$

$\frac{ab}{c}+d=e$ sw + v = y

What is the value of a? d? What is the value of w? s?

HW #7 **SHOW ALL YOUR WORK FOR CREDIT.**

1. 14x = 10x + 32
2. 12x – 9 = 15x – 27
3. 4(6 – 2x) = 48
4. $\frac{6a}{4}-5=4$
5. $\frac{x+1}{3}-9=2$