## **HW 1-8 Solving Multi-Step Equations**

Solve. Give the exact value of the variable (Leave as a fraction in simplest form or as a whole number. NO DECIMALS)

1) 
$$-9z = 21 - 3z$$

2) 
$$21 - 13 + 10r = 12r + 9r - 2$$

3) 
$$-14c - 7 = -c + 19$$

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4) 
$$-5(3-6x) = 21 - 3(4x - 2)$$
 5)  $18k - k + 9 = 7k - 5 + 14$ 

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6) 
$$8 + 44g - 28 = 54$$

7) 
$$\frac{8n - (-2)}{-6} = 9$$

8) 
$$23d - 12 = 51d + 20$$

9) 
$$4k - 23 = -5(7k - 11)$$

Determine whether the solution given for the equation is correct. If the given solution is not correct, solve to find the correct solution.

10) Solution: 
$$p = -9$$

11) Solution: 
$$a = \frac{17}{3}$$

12) Solution: 
$$n = 13$$

Equation: 
$$8p = 45 + 13p$$

Equation: 
$$26 - 6a = -42 + 18a$$

Equation: 
$$17n - 90 = 62n$$

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13) 
$$-54 + 9h = 21 - 5h$$

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 14)  $3(13x + 12) - 60 = 39x + 106$  15)  $25 - 8y = -85 + 2y$ 

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16) 
$$18 + 2x = 6x + 2$$

17) 
$$-10 - k = -14 + 2k$$

16) 
$$18 + 2x = 6x + 2$$
 17)  $-10 - k = -14 + 2k$  18)  $3y - 7 = 17 + 7y$ 

19) 
$$-6z = 14 - z$$

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 20)  $12 - 6 + 7r = 2r + 5r - 36$  21)  $-5c - 7 = -3c - 37$ 

21) 
$$-5c - 7 = -3c - 37$$

$$22) \quad \frac{7n + (-5)}{-3} = 11$$

22) 
$$\frac{7n + (-5)}{-3} = 11$$
 23)  $-4(2 - 3x) = 7 - 2(x - 3)$  24)  $8k - 2k + 3 = 6k - 3 + 6$ 

24) 
$$8k - 2k + 3 = 6k - 3 + 6$$