Name:_____Period:_____

HW 1-2: Order of Operations, Simplifying Expressions, and One-Step Equations

Evaluate each expression using the correct order of operations.

1. $22 + 3(2 - 4)^2$

2. $3(6 - 5 + 2)^3 - (16 - 9 + 2)$

3. $(5^2 + 2) - 4(6 - 2)^3$

4. $5 - 2(7 - 2 + 3)^2$

5. $\dfrac{3-5}{7+10}$

6. $\dfrac{6+2(-4)}{5(-4)}$

7. $\dfrac{(-8)-2(-12)}{6^2+(-5)(-6)}$

8. $\dfrac{6-3(4)}{15(-2)}$

Simplify each expression by combining like terms and/or using the Distributive Propery.

9. $-4(2x - 7)$

10. $\frac{2}{3}(-12x - 30)$

11. $x + 15 - 4x$

12. $-7 + 2x - 3 - x$

13. $-2(-2x + 7) - 4$

14. $4 - 3(x - 2)$

15. $-x + 14 + 6x$

16. $x - \frac{1}{2}(2x - 4) + 7$

17. $5x + 16 - 6x - 2$

18. $-3x - 8 - 3 - x$

Solve each equation using inverse operations.

19. $x - 6 = -6$

20. $x + 21 = 25$

21. $-2x = -4$

22. $-y = 25$

23. $\dfrac{c}{-5} = 6$

24. $\dfrac{b}{2} = 8$

25. $-12 + x = 16$

26. $f - (-23) = 15$

27. $-1 = x + 3$

28. $-6x = 0$

29. $-6 = \dfrac{x}{-3}$

30. $15 = -8 + x$