

HW 1-1

Int 2

Order of Operations, Like Terms, & One-Step Eq.

Unit 1

Evaluate each expression using the correct order of operations.

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

$$34$$

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

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

$$-229$$

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

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

$$\frac{-2}{17}$$

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

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

$$\frac{8}{33}$$

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

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

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

$$-8x + 28$$

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

11. $x + 15 - 4x$

$$-3x + 15$$

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

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

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

$$4x - 18$$

15. $-x + 14 + 6x$

$$5x + 14$$

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

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

$$-x + 14$$

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

Solve each equation using inverse operations.

19. $x - 6 = -6$

$x = 0$

20. $\frac{b}{2} < 8$

$b \geq -30$

21. $-2x = -4$

$x = 2$

22. $-y = 25$

23. $\frac{c}{-5} \leq 6$

24. $x + 21 = 25$

25. $-12 + x \geq 16$

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

27. $-1 = x + 3$

$x \geq 28$

$x = -4$

28. $-6x = 0$

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

30. $15 = -8 + x$

$x = 18$

Graph the solutions to the inequalities in the problems above.

Question _____

Question #23

Question _____

Solution: _____

Solution: $c \geq -30$

Solution: _____

