

#1-5, Simplify each, round answers to the 100ths.

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

2. $(4+3) - 5 \cdot 6$

3. $2+ 6(8-3)^3$

4. $[8 + (2-6)^2] \div 4$

5. $\frac{6-9}{3+1}$

#6-8, Evaluate each expression for the given value (s).

6. $3(x+4) - 1$, for $x = -2$

7. $x(y-x) + z$, when $x = -2$, $y = -1$ and $z = 0$.

8. $|x+3| + 7$, for $x = -20$

#9-12, Simplify each expression.

9. $16x - 20x$

10. $-2(3w + 4) - w + 7$

11. $-2y + 3y^2 - 3y + y$

12. $4a - 3(3 - 5a)$

#13-21, Solve each equation. Round your answers to the 100ths.

13. $x - 32 = -14$

14. $5.6 - y = 3.3$

15. $3m - 11 = 1$

16. $4(x - 7) = (2+3)^2$

17. $4x - 3 = 5 + 2x$

18. $2(2w - 3) = 6(w + 2)$

19. $\frac{x-1}{3} = -17$

20. $\frac{12}{5} = \frac{2}{x}$

21. $\frac{x-1}{3} = \frac{x}{5}$

22. Check your answer to #17 by plugging it back into equation. How can you tell if your solution is the correct one?

23. How can you tell if an equation has *infinite* solutions?

#24-25 Solve each equation for the indicated variable.

24. $3x + 2y = 10$; solve for y

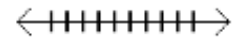
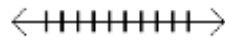
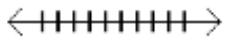
25. $4a + 5b - 6c = 7a$; solve for b

#26-28 Solve each inequality and graph your solution set.

26. $3 - x > 10$

27. $-3 \leq 2x + 5 \leq 9$

28. $x+1 > 5$ or $2x+3 \leq 1$



#29-30, Solve each absolute value equation.

29. $|x - 5| = 22$

30. $2|x + 1| + 11 = 5$