

****Do these problems on the same paper as your daily textbook assignments.****

Textbook Section(s)	NO CALCULATORS! SHOW WORK! EXTRA PROBLEMS (use exact values—no rounding decimals—in answers)
1-1 & 1-2	<p>Simplify: 1. $(-9+3-4)-[(8-(-4)-6)]$ 2. $-18-17 - -73+4$</p> <p>3. $30 \div 6 \cdot 3 - 8 \cdot 4$ 4. $1.5^3 + 3 \cdot 5^2 - 9 \cdot 5 - 8$ 5. $\frac{6^2 - 2^2 \cdot 3}{2^3(9-6)}$</p> <p>6. $\frac{8[-7+5(1-6)]}{(-4)^3}$ 7. $\frac{\left[\frac{-3}{4} - \left(-\frac{1}{2}\right)\right](-8)}{\frac{8}{9} \div (-4)}$</p> <p>8. $(-8)(-4) - 7 \div \left(-\frac{1}{4}\right) - [(-6)^2 \div 9]$</p> <p>9. Evaluate, when $x=4$, $y=5$, and $z=3$: $\frac{2x+3(y+z)}{x(y^2-z^2)}$</p> <p>10. Evaluate, when $c=7$ and $d=2$: $\frac{[c+(c-d)^2]^2}{c^2-3cd+(d+1)^2}$</p> <p>Simplify. Arrange answers in descending order, when possible.</p> <p>11. $\frac{5}{2}(4w^2-2w+6)+3(7-4w)$</p> <p>12. $(9x^2y-7xy+8xy^2)-(13xy^2-x^2y^2+4x^2y+5y^2)$</p> <p>13. $11n-3[2(-4n+6)+5n]+6$</p> <p>14. What polynomial must be subtracted from $5x^3-7x^2+4$ to obtain $-x^3-7x^2+5x-6$?</p>
1-3, 1-6, and Review	<p>Solve each inequality. Graph each solution set that is not empty.</p> <p>15. $4-(5-2x) < -2(x+2)$ 16. $2(9x-10) - \frac{6}{5}x \geq 8(3x-1)$</p> <p>17. $4[5x-(3x-7)] < 2(4x-5)$ 18. $\frac{11}{3} - \frac{2}{x} \geq 5$</p> <p>19. $-1-5x < x+11$ and $\frac{x}{5} - \frac{1}{2} \leq \frac{x}{4}$ 20. $-6 < 2(x-3) < 2$ or $4 < 3-x < 9$</p> <p>Tell whether the statement is true or false for all real numbers. If false, give a counterexample.</p> <p>21. If $a > b$, then $a^2 > b^2$. 22. If $a \neq b$, then $a^2 + b^2 > 2ab$</p>

	<p>23. Find values for a, b, c, and d so that the given equation is an identity. $(a+8y^3-3by^2)-(9y^2+6+5cy^3-dy)=8y^3+y-4$</p>
1-4 and Review	<p>24. Solve for z: $z+a=3(z+a)$ 25. Solve for r: $A=P(1+rt)$</p> <p>26. Solve for d: $S=\frac{n}{2}[2a+(n-1)d]$</p> <p>27. Evaluate, when $x=3$ and $y=8$: $\frac{(2x^2+y^2)(13x-3y)^2}{5x^2+4xy+y^2}$</p> <p>28. Insert grouping symbols so that the equation is true. $5-2^2+4\cdot7-3=25$</p> <p>29. Tell whether the statement is true or false for all real numbers. If false, give a counterexample. If $a > b$ and $c > d$, then $a-c > b-d$.</p> <p>Solve and graph each solution that is not empty.</p> <p>30. $8 < 5-3x \leq 14$ 31. $-\frac{3}{4}x \geq x-1$ or $-\frac{3}{4}x < x+1$</p> <p>32. $[3x-1 < 8$ or $2(x-1) < -6]$ and $-1 \leq 2x \leq 3$</p>
1-7 and Review	<p>Solve. If the solution is non-empty, graph the solution and state the solution algebraically.</p> <p>33. $6- 4-x \geq 5$ 34. $11+\frac{1}{2} 0.4x-1 > 13$ 35. $\frac{1}{2} x +5 \geq 2 x -13$</p> <p>36. $3 \leq y+2 < 4$</p> <p>37. Solve for x: $x(a+b)=a-b$</p> <p>38. Solve for v: $S=-\frac{1}{2}gt^2+vt$</p> <p>39. Tell whether the statement is true or false for all real numbers. If false, give a counterexample. $a =a$</p>