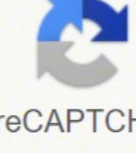


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6.2.1 EXERCISES

In Exercises 1 - 15, expand the given logarithm and simplify. Assume when necessary that all quantities represent positive real numbers.

- $\ln(x^3y^2)$
- $\log_2\left(\frac{128}{x^2+4}\right)$
- $\log_5\left(\frac{z}{25}\right)^3$
- $\log(1.23 \times 10^{37})$
- $\ln\left(\frac{\sqrt{z}}{xy}\right)$
- $\log_5(x^2 - 25)$
- $\log_{\sqrt{2}}(4x^3)$
- $\log_{\frac{1}{3}}(9x(y^3 - 8))$
- $\log(1000x^3y^5)$
- $\log_3\left(\frac{x^2}{81y^4}\right)$
- $\ln\left(\sqrt{\frac{xy}{ez}}\right)$
- $\log_6\left(\frac{216}{x^3y}\right)^4$
- $\log\left(\frac{100x\sqrt{y}}{\sqrt[3]{10}}\right)$
- $\log_{\frac{1}{2}}\left(\frac{4\sqrt[3]{x^2}}{y\sqrt{z}}\right)$
- $\ln\left(\frac{\sqrt[3]{x}}{10\sqrt{yz}}\right)$

In Exercises 16 - 29, use the properties of logarithms to write the expression as a single logarithm.

- $4\ln(x) + 2\ln(y)$
- $\log_2(x) + \log_2(y) - \log_2(z)$
- $\log_3(x) - 2\log_3(y)$
- $\frac{1}{2}\log_3(x) - 2\log_3(y) - \log_3(z)$
- $2\ln(x) - 3\ln(y) - 4\ln(z)$
- $\log(x) - \frac{1}{3}\log(z) + \frac{1}{2}\log(y)$
- $-\frac{1}{3}\ln(x) - \frac{1}{3}\ln(y) + \frac{1}{3}\ln(z)$
- $\log_5(x) - 3$
- $3 - \log(x)$
- $\log_7(x) + \log_7(x - 3) - 2$
- $\ln(x) + \frac{1}{2}$
- $\log_2(x) + \log_4(x)$
- $\log_2(x) + \log_4(x - 1)$
- $\log_2(x) + \log_4(x - 1)$
- $\log_2(x) + \log_4(x - 1)$

Balancing Equations Practice Worksheet

Balance the following equations:

- $\text{NaNO}_3 + \text{PbO} \rightarrow \text{Pb(NO}_3)_2 + \text{Na}_2\text{O}$
- $\text{AgI} + \text{Fe}_2(\text{CO}_3)_3 \rightarrow \text{FeI}_3 + \text{Ag}_2\text{CO}_3$
- $\text{C}_2\text{H}_4\text{O}_2 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
- $\text{ZnSO}_4 + \text{Li}_2\text{CO}_3 \rightarrow \text{ZnCO}_3 + \text{Li}_2\text{SO}_4$
- $\text{V}_2\text{O}_5 + \text{CaS} \rightarrow \text{CaO} + \text{V}_2\text{S}_5$
- $\text{Mn(NO}_3)_2 + \text{BeCl}_2 \rightarrow \text{Be(NO}_3)_2 + \text{MnCl}_2$
- $\text{AgBr} + \text{GaPO}_4 \rightarrow \text{Ag}_3\text{PO}_4 + \text{GaBr}_3$
- $\text{H}_2\text{SO}_4 + \text{B(OH)}_3 \rightarrow \text{B}_2(\text{SO}_4)_3 + \text{H}_2\text{O}$
- $\text{S}_8 + \text{O}_2 \rightarrow \text{SO}_2$
- $\text{Fe} + \text{AgNO}_3 \rightarrow \text{Fe(NO}_3)_2 + \text{Ag}$

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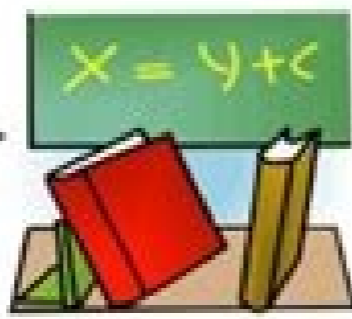
Balancing Chemical Equations

Balance the following chemical equations.

- $\text{HCl} + \text{NaOH} \rightarrow \text{NaCl} + \text{H}_2\text{O}$
- $\text{NH}_3 + \text{O}_2 \rightarrow \text{NO} + \text{H}_2\text{O}$
- $\text{Al} + \text{O}_2 \rightarrow \text{Al}_2\text{O}_3$
- $\text{C}_2\text{H}_6 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
- $\text{Al}_2\text{S}_3 + \text{H}_2\text{O} \rightarrow \text{Al(OH)}_3 + \text{H}_2\text{S}$
- $\text{PCl}_5 + \text{H}_2\text{O} \rightarrow \text{H}_3\text{PO}_4 + \text{HCl}$
- $\text{Ba(NO}_3)_2 + \text{HF} \rightarrow \text{BaF}_2 + \text{HNO}_3$
- $\text{CaCl}_2 + \text{Na}_2\text{PO}_4 \rightarrow \text{Ca}_3(\text{PO}_4)_2 + \text{NaCl}$
- $\text{FeS} + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3 + \text{SO}_2$
- $\text{HNO}_3 + \text{P}_2\text{O}_5 \rightarrow \text{H}_3\text{PO}_4 + \text{H}_2\text{O}$

Name: _____

Basic Algebra



Evaluate each expression.

$a = 3, \quad b = 5, \quad c = 6$

- | | |
|---|---|
| <p>1. $a + 5$ _____</p> <p>3. $4b$ _____</p> <p>5. $20 - a$ _____</p> <p>7. $\frac{45}{b}$ _____</p> <p>9. $a + b + c$ _____</p> | <p>2. $15 - c$ _____</p> <p>4. $\frac{18}{c}$ _____</p> <p>6. $11b$ _____</p> <p>8. $a - 2$ _____</p> <p>10. $\frac{c}{a}$ _____</p> |
|---|---|
-
- $p = 12, \quad q = 2, \quad r = 30$
- | | |
|---|--|
| <p>11. $q50$ _____</p> <p>13. $p + 4 + 6$ _____</p> <p>15. $10r$ _____</p> <p>17. $\frac{p}{4}$ _____</p> | <p>12. $\frac{r}{q}$ _____</p> <p>14. $p - 7$ _____</p> <p>16. $\frac{r}{10}$ _____</p> <p>18. $r - p$ _____</p> |
|---|--|

Simple Linear Equations (A) Answers

Solve for each variable.

- | | | |
|--|---|--|
| <p>1. $-10 - \frac{x}{-5} = -19$
$x = -45$</p> | <p>6. $7 + \frac{b}{4} = 11$
$b = 16$</p> | <p>11. $\frac{v}{7} + (-2) = -4$
$v = -14$</p> |
| <p>2. $\frac{c}{2} - (-9) = 18$
$c = 72$</p> | <p>7. $\frac{18}{y} + 6 = 12$
$y = 3$</p> | <p>12. $\frac{v}{-2} + (-4) = -8$
$v = 24$</p> |
| <p>3. $3 + \frac{x}{2} = 1$
$x = -4$</p> | <p>8. $9 + \frac{u}{4} = 13$
$u = 16$</p> | <p>13. $2 - \frac{v}{-7} = -6$
$v = -56$</p> |
| <p>4. $\frac{56}{y} + 5 = 13$
$y = 7$</p> | <p>9. $\frac{-12}{a} - 7 = -1$
$a = -2$</p> | <p>14. $\frac{c}{4} - 4 = 2$
$c = 24$</p> |
| <p>5. $\frac{36}{b} + (-10) = -6$
$b = 9$</p> | <p>10. $6 + \frac{14}{a} = 8$
$a = 7$</p> | <p>15. $\frac{y}{3} + (-2) = 6$
$y = 24$</p> |

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Two-Step Equation Word Problems: Integers Interpret this set of word problems that require two-step operations to solve the equations.

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