

Mid-Chapter 7 Study Guide

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|--|---|---|
| 1) Simplify $-(7n)^{-2}$   | 2) Simplify $\frac{5}{5^{-2}}$                        | 3) Simplify $\frac{10fg^{-5}h^0}{h^{-2}}$                 |
| 4) Simplify $\frac{8m^{-2}}{4n^{-1}}$                            | 5) Evaluate $-x^{-2}$ for $x = -2$                    | 6) Evaluate $6x^3z^0$ for $x = -2$ and $z = 2$ .          |
| 7) Evaluate $2xy^{-2}z^2$ for $x = -2$ , $y = 4$ , and $z = 2$ . | 8) Simplify:<br>$\frac{1}{3} \cdot (2y)^0 x^{-3}$     | 9) Simplify: $\frac{2x}{y^{-4}} \cdot \frac{3z^{-3}}{18}$ |
| 10) Simplify $\frac{3}{6^{-1}}$                                  | 11) Simplify:<br>$x^3y^{-1} \cdot xy \cdot x^{-2}y^2$ | 12) Simplify:<br>$(-7c^3d^4)(4cd^3)$                      |
| 13) Simplify:<br>$(-3j^7k^5)(-8jk^8)$                            | 14) Simplify:<br>$(-3f^2g^{-3})(2fg)(7f^3g^{-2})$     | 15) Simplify:<br>$(4.895)^{-11}(4.895)^{11}$              |
| 16) Simplify:<br>$-7xy^{-3}z^3(0)^{-10}$                         | 17) Simplify:<br>$(a^4)^6(b^5)^{-2}$                  | 18) Simplify: $(m^2)^8(n^0)^4$                            |
| 19) Simplify:<br>$(mnp)^0$                                       | 20) Simplify:<br>$a(a^{-3}b^{-4})^{-2}b^{-3}$         | 21) Simplify:<br>$7t^{11}u^3(-4t^{-9})^2u^{-5}$           |

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