

- **3-91.** Solve for the variable in each equation below. Show your work and check your solutions.

a. $8x - 22 = -60$


b. $\frac{1}{2}x - 37 = -84$

- **3-92.** For each expression below, write a simpler, equivalent expression using only positive exponents.

a) $(x^2y^3)(x^{-2}y^{-2})$

b) $\frac{x^3}{x^{-2}}$

c) $(2x^{-1})^3$

- **3-93.** Write and solve an equation to represent the given situation. Be sure to define your variable. [Homework Help](#) 
- Samantha currently has \$1500 in the bank and is spending \$35 per week. How many weeks will it take until her account is worth only \$915?