



# Answers to Fundamental Algebra

1. (a)  $\frac{5y}{z} - 4x$   
(b)  $a^2 + mn$

2.  $y^2 - 3z + \frac{3}{x} = (-4)^2 - 3(-2) + \frac{3}{6}$   
 $= 16 + 6 + \frac{1}{2}$   
 $= 22\frac{1}{2}$

3.  $\frac{-x-3}{x-3} = \frac{-(-5)-3}{-5-3}$   
 $= \frac{5-3}{-8}$   
 $= -\frac{2}{8}$   
 $= -\frac{1}{4}$

4.  $X = \frac{d+3e}{4de+fg}$   
 $= \frac{9+3(-2)}{4(9)(-2)+8(3)}$   
 $= \frac{9-6}{-72+24}$   
 $= \frac{3}{-48}$   
 $= -\frac{1}{16}$