

Variable in the Denominator

a) $\frac{56}{x} = (-3.5)$ Multiply both sides by the denominator to bring the variable into the numerator

$$\frac{56}{-3.5} = \frac{-3.5x}{-3.5}$$

$$-16 = x$$

b) $(2.8) = \frac{22.4}{x}$

$$\frac{2.8x}{2.8} = \frac{22.4}{2.8}$$

$$x = 8$$

Variable in the Denominator

a) $\frac{4}{x-3} = 2$ Multiply both sides by the denominator to bring the variable into the numerator

$$\frac{4}{+6} = \frac{2x-6}{+6}$$

$$\frac{10}{2} = \frac{2x}{2}$$

$$5 = x$$

b) $\frac{-2(x+5)}{2x+7} = 2$

$$\frac{-2(x+5)}{+2x} = \frac{2(2x+7)}{+2x}$$

$$-2x-10 = 4x+14$$

$$\frac{-10}{-14} = \frac{6x+14}{-14}$$

$$\frac{-24}{6} = \frac{6x}{6}$$

$$-4 = x$$