

Solving Equations Requiring Distribution

$$4(y - 9) - 10y = 0$$

$$4y - 36 - 10y = 0$$

$$-6y - 36 = 0$$

$$-6y - 36 + 36 = 0 + 36$$

$$-6y = 36$$

$$\frac{-6y}{-6} = \frac{36}{-6}$$

$$y = -6$$

$$-3(z + 5) + 29 = -10$$

$$-3z - 15 + 29 = -10$$

$$-3z + 14 = -10$$

$$-3z + 14 - 14 = -10 - 14$$

$$-3z = -24$$

$$\frac{-3z}{-3} = \frac{-24}{-3}$$

$$z = +8$$