

Solving Equations That Have the Distributive Property - Notes

Solve each equation.

$$\begin{aligned} 1) \quad & -2(5a+8) = -96 \\ & -10a - 16 = -96 \\ & -10a = -80 \\ & \frac{-10a}{-10} = \frac{-80}{-10} \\ & \boxed{a = 8} \end{aligned}$$

$$\begin{aligned} 2) \quad & 5(-4b+7) = -105 \\ & -20b + 35 = -105 \\ & -20b = -140 \\ & \frac{-20b}{-20} = \frac{-140}{-20} \\ & \boxed{b = 7} \end{aligned}$$

$$\begin{aligned} 3) \quad & -2(1-6a) = -98 \\ & -2 + 12a = -96 \\ & 12a = -94 \\ & \frac{12a}{12} = \frac{-94}{12} \\ & \boxed{a = -8} \end{aligned}$$