

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

WS 6E.1 - Solving for y

Solve each equation for y.

<p>1. $3x + 7y = 35$ $-3x \quad -3x$</p> $\frac{7y}{7} = \frac{-3x + 35}{7}$ $y = -\frac{3}{7}x + 5$	<p>2. $9y + 6x = 54$ $-6x \quad -6x$</p> $\frac{9y}{9} = \frac{-6x + 54}{9}$ $y = -\frac{2}{3}x + 6$
<p>3. $x - y = 4$ $-x \quad -x$</p> $\frac{-y}{-1} = \frac{-x + 4}{-1}$ $y = x - 4$	<p>4. $5y = 2x$ $\frac{5y}{5} = \frac{2x}{5}$</p> $y = \frac{2}{5}x$
<p>5. $6x - 3y = -24$ $-6x \quad -6x$</p> $\frac{-3y}{-3} = \frac{-6x - 24}{-3}$ $y = 2x + 8$	<p>6. $-9 = 2y - 7x$ $+7x \quad +7x$</p> $\frac{7x - 9}{2} = \frac{2y}{2}$ $y = \frac{7}{2}x - \frac{9}{2}$
<p>7. $\frac{5y \cdot 12}{4} - \frac{x \cdot 12}{2} = \frac{2 \cdot 12}{3}$</p> $15y - 6x = 8$ $+6x \quad +6x$ $\frac{15y}{15} = \frac{6x + 8}{15} \Rightarrow y = \frac{3}{5}x + \frac{8}{15}$	<p>8. $\frac{x \cdot 15}{5} + \frac{2y \cdot 15}{3} = \frac{4 \cdot 15}{3}$</p> $3x + 10y = 20$ $-3x \quad -3x$ $\frac{10y}{10} = \frac{-3x + 20}{10}$ $y = -\frac{3}{10}x + 2$