

Name _____

Score _____/12

Last name, First Name Please Print Clearly

<p>Sample Problem: Write the equation $y = 3x + 2$ in standard form.</p> <p>Solution: Begin with the original equation $y = 3x + 2$ Add $-3x$ to both sides $y - 3x = 2$ This is the desired standard form.</p>	<p>Sample Problem: Write the equation $3x + 5y = 2$ in slope-intercept form.</p> <p>Solution: Begin with the original equation $3x + 5y = 2$ Add $-3x$ to both sides of the equation $5y = -3x + 2$ Multiply both sides by $\frac{1}{5}$ $y = -\frac{3}{5}x + \frac{2}{5}$ This is the desired slope-intercept form.</p>
<p>Problem: Write the equation $2x = -5y + 3$ in standard form.</p> <p>Solution: Begin with the original equation $2x = -5y + 3$ Add $5y$ to both sides $2x + 5y = 3$ This is the desired standard form.</p>	<p>Problem: Write the equation $x - 5y = 6$ in slope-intercept form.</p> <p>Solution: Begin with the original equation $x - 5y = 6$ Add $-x$ to both sides $-5y = -x + 6$ Multiply both sides by $-\frac{1}{5}$ $y = \frac{1}{5}x - \frac{6}{5}$ This is the desired slope-intercept form.</p>
<p>Problem: Write the equation $\frac{3}{5}y = \frac{3x}{4} - \frac{7}{3}$ in standard form.</p> <p>Solution: Begin with the original equation $\frac{3}{5}y = \frac{3x}{4} - \frac{7}{3}$ Add $-\frac{3}{4}x$ to both sides $\frac{3}{5}y - \frac{3}{4}x = -\frac{7}{3}$ This is the desired standard form.</p>	<p>Problem: Write the equation $x + y = 1$ in slope-intercept form.</p> <p>Solution: Begin with the original equation $x + y = 1$ Add $-x$ to both sides $y = -x + 1$ This is the desired slope-intercept form.</p>
<p>Problem: Write the equation $\frac{3}{5}y = \frac{3x}{4} - \frac{7}{3}$ in standard form with integer coefficients.</p> <p>Solution: Begin with the original equation $\frac{3}{5}y = \frac{3x}{4} - \frac{7}{3}$ Add $-\frac{3}{4}x$ to both sides $\frac{3}{5}y - \frac{3}{4}x = -\frac{7}{3}$ Multiply both sides by 60 $36y - 45x = 140$ is the desired standard form with integer coefficients.</p>	<p>Problem: Write the equation $\frac{3}{8}x = -\frac{2}{5} + 5y$ in slope-intercept form.</p> <p>Solution: Begin with the original equation $\frac{3}{8}x = -\frac{2}{5} + 5y$ Add $\frac{2}{5}$ to both sides $5y = \frac{3}{8}x + \frac{2}{5}$ Multiply both sides by $\frac{1}{5}$ $y = \frac{1}{5}\left(\frac{3}{8}x + \frac{2}{5}\right) = \frac{3}{40}x + \frac{2}{25}$ $y = \frac{3}{40}x + \frac{2}{25}$ is the desired slope-intercept form.</p>