

Name: \_\_\_\_\_

## Systems of Equations

Solve each system of equations using any method. Try a mix of substitution and elimination.

1. $y = \frac{-13}{18}x - \frac{91}{6}$ $5x + 9y = -186$	2. $\frac{-2525}{4} = \frac{85}{4}y + \frac{15}{2}x$ $y = \frac{-1}{12}x - \frac{175}{6}$	3. $4x - y = 101$ $y = \frac{7}{11}x - \frac{223}{11}$
4. $10x - 9y = 47$ $7x + 2y = -75$	5. $y = \frac{-16}{3}x + \frac{146}{3}$ $-15y = -378 + 48x$	6. $\frac{99}{2} = \frac{3}{2}y + \frac{9}{2}x$ $x = \frac{19}{6}y + 137$

<p>7.</p> $x = \frac{53}{11} - \frac{16}{11}y$ $x + 4y = 43$	<p>8.</p> $y = \frac{14}{13}x + \frac{62}{13}$ $y = \frac{14}{9}x - \frac{82}{9}$	<p>9.</p> $4x - 9y = -31$ $2x - 3y = -11$
<p>10.</p> $y = \frac{7}{5}x + \frac{227}{5}$ $-6x = 118 + 34y$	<p>11.</p> $6x - y = -188$ $x = \frac{9}{19}y - \frac{747}{19}$	<p>12.</p> $-4y = -90 + 2x$ $y = \frac{1}{8}x + \frac{175}{8}$