Solving Systems of Linear Equations by Graphing

1. $y = \frac{2}{3}x + 6$ ✓
   $-\frac{2}{3}x + y = 6$ ✓
   $-\frac{2}{(3)(6)}x + \frac{y}{6} = \frac{6}{6}$ ✓
   $\boxed{\frac{x}{-9} + \frac{y}{6} = 1}$ ✓
   $\boxed{a_1 = -9}$ ✓
   $\boxed{b_1 = 6}$ ✓
   $y = -\frac{3}{2}x + 6$ ✓
   $\frac{3}{(2)(6)}x + \frac{y}{6} = \frac{6}{6}$ ✓
   $\frac{x}{4} + \frac{y}{6} = 1$ ✓
   $\boxed{a_2 = 4}$ ✓
   $\boxed{b_2 = 6}$ ✓

2. $\frac{x}{7} + \frac{y}{7} = \frac{7}{7}$ ✓
   $\frac{x}{7} + \frac{y}{7} = 1$ ✓
   $\boxed{a_1 = 7}$ ✓
   $\boxed{b_1 = 7}$ ✓
   $x - y = 1$ ✓
   $x + \frac{y}{-1} = 1$ ✓
   $\boxed{a_2 = 1}$ ✓
   $\boxed{b_2 = -1}$ ✓

3. $\frac{4x}{8} - \frac{y}{8} = \frac{8}{8}$ ✓
   $\frac{x}{2} + \frac{y}{-8} = 1$ ✓
   $\boxed{a_1 = 2}$ ✓
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   $\frac{3x}{6} + \frac{2y}{6} = \frac{6}{6}$ ✓
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4. $\frac{x}{8} + \frac{4y}{8} = \frac{8}{8}$ ✓
   $\frac{x}{8} + \frac{y}{2} = 1$ ✓
   $\boxed{a_1 = 8}$ ✓
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   $\frac{x}{2} - \frac{2y}{2} = \frac{2}{2}$ ✓
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5. $\frac{x}{5} + \frac{y}{5} = \frac{5}{5}$ ✓
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   $y = 5x + \frac{1}{2}$ ✓
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