

## Section 6.1 – Solving by Graphing and Substitution

### Problem Set 2

Find the coordinates of the points where the following pairs of lines intersect.

1.  $2x + y = 4$  and  $3x + y = 5$

2.  $y = x + 4$  and  $y = -4x + 1$

3.  $x = y - 1$  and  $y = 3x + 2$

4.  $y = \frac{3}{2}x - 2$  and  $y = \frac{x}{2} + 2$

5.  $y = -2x$  and  $y = 2x + 7$

6.  $2y + x = 1$  and  $2y - x = 3$

7.  $x + y = 3$  and  $-x - y = 2$

8.  $\frac{x}{3} + \frac{y}{3} = 2$  and  $\frac{x}{5} - \frac{y}{2} = -\frac{9}{10}$

9.  $2x + 2 = 3$  and  $y = 5$

10.  $4x + y = 0$  and  $-\frac{x}{7} + \frac{4y}{2} = 0$

11.  $\frac{x}{3} + \frac{2y}{7} = \frac{7}{3}$  and  $\frac{x}{5} - \frac{y}{4} = -\frac{31}{4}$

12.  $x + 3y = 1$  and  $-x - 7y = -9$

13.  $x + 4y = 5$  and  $2x + 14y - 11 = 0$

14.  $x + y = 12$  and  $2x + y = 1$