Algebra 2 Name_____ ID: 1

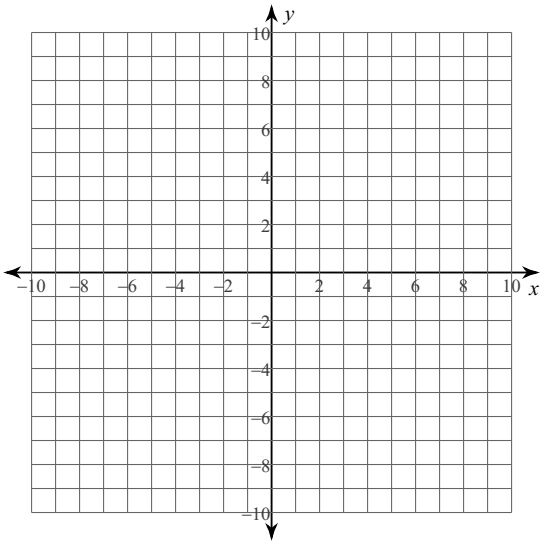
Solving Systems by Graphing & Substitution HW

Date_____ Period____

Solve each system by graphing.

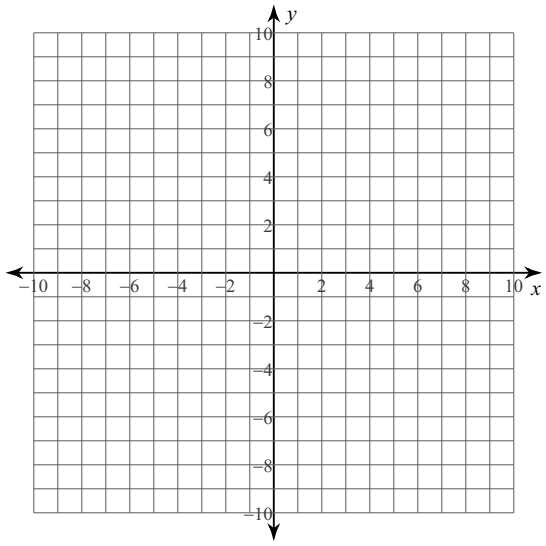
1) $y = -\frac{4}{5}x + 4$

$y = -3x - 7$



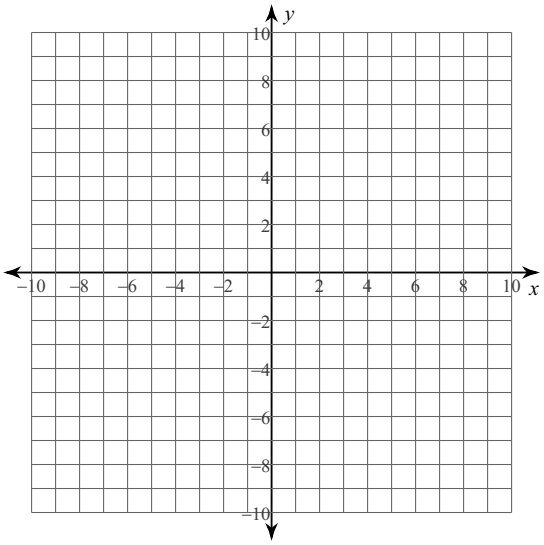
2) $y = \frac{5}{3}x + 1$

$y = \frac{5}{3}x + 7$



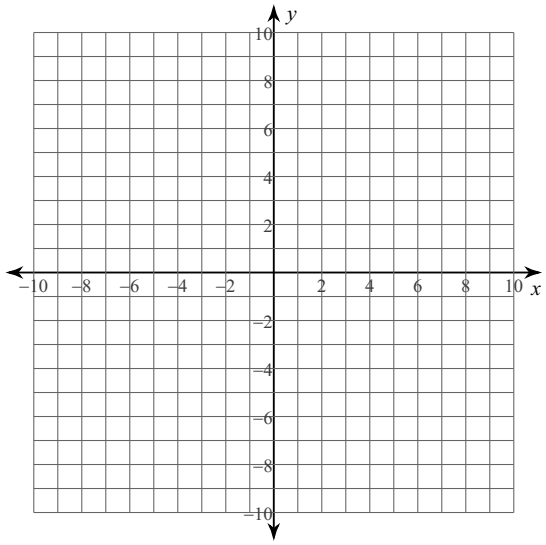
3) $7x - 8y = -64$

$x - 8y = -16$

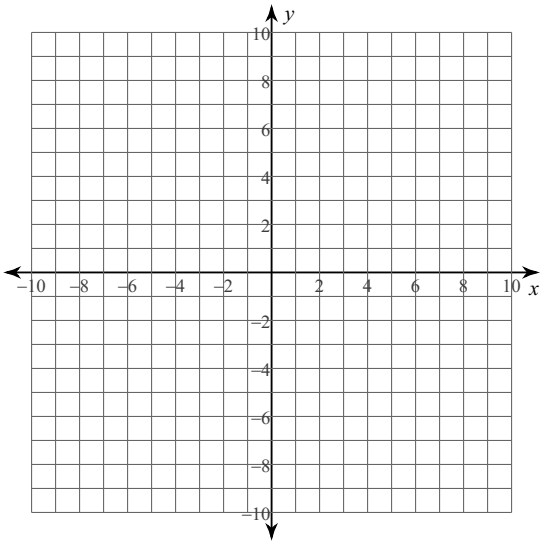


4) $x + y = 6$

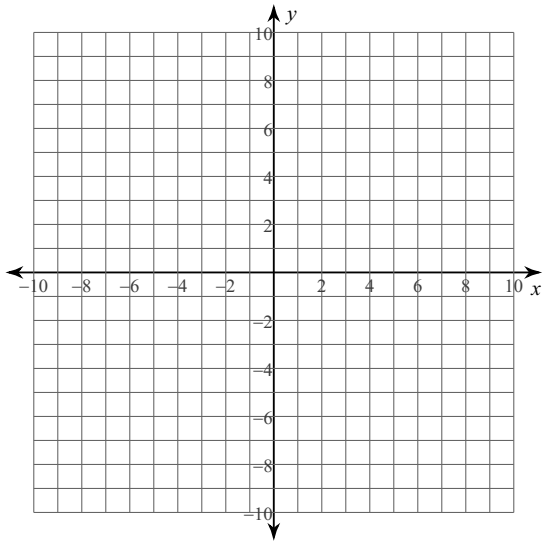
$4x + y = -3$



5) $4x + y = 8$
$3x + 4y = -20$



6) $x - 9y = 18$
$x - 9y = 36$



Solve each system by substitution.

7) $3x + 5y = 0$
$2x + y = 7$

8) $-9x - 3y = -3$
$3x + y = 1$

9) $-6x - 2y = 14$
$-8x + y = 4$

10) $-3x + y = 2$
$-9x + 3y = 3$

11) $x - y = 2$
$-8x - 7y = 14$

12) $x - 6y = 21$
$2x + 8y = -18$

Answers to Solving Systems by Graphing & Substitution HW (ID: 1)

1) $(-5, 8)$
2) No solution
3) $(-8, 1)$
4) $(-3, 9)$
5) $(4, -8)$
6) No solution
7) $(5, -3)$
8) Infinite number of solutions
9) $(-1, -4)$
10) No solution
11) $(0, -2)$
12) $(3, -3)$