Algebra 1 Name_____ ID: 1

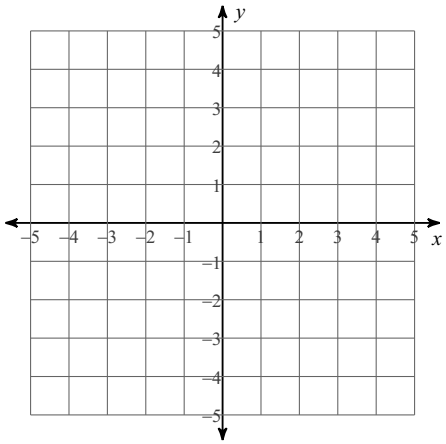
Solve by Graphing

Date_____ Period____

Solve each system by graphing.

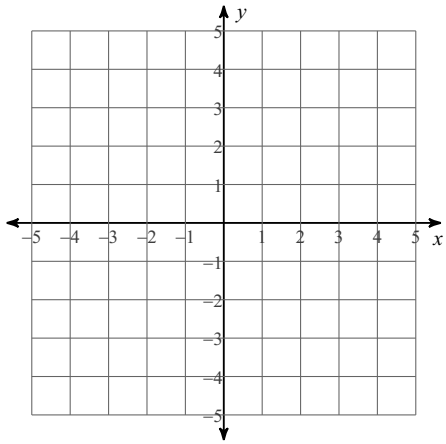
1) $y = \frac{1}{2}x - 2$

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



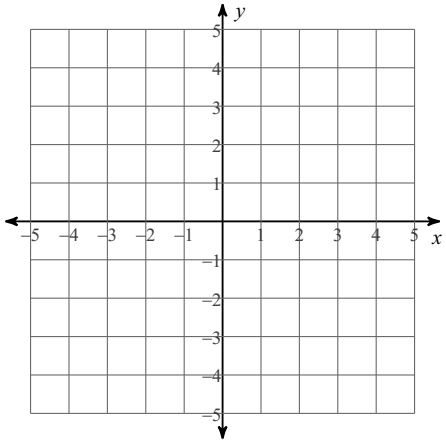
2) $y = \frac{1}{4}x + 3$

$y = \frac{7}{4}x - 3$



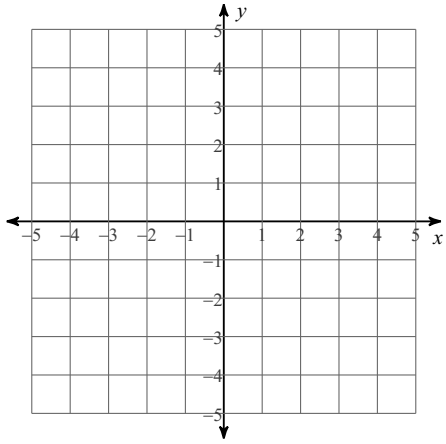
3) $y = \frac{7}{3}x + 3$

$y = \frac{7}{3}x + 4$

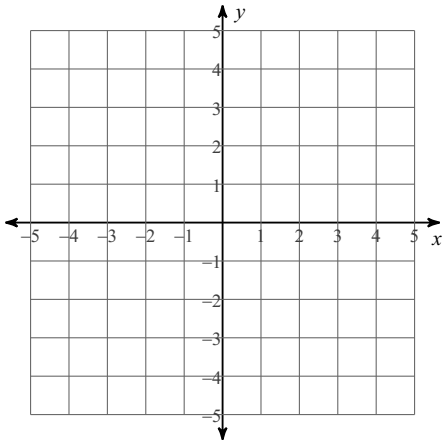


4) $y = -\frac{3}{2}x - 2$

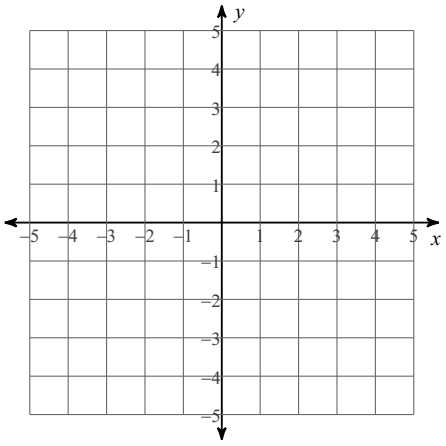
$y = -\frac{1}{2}x + 2$



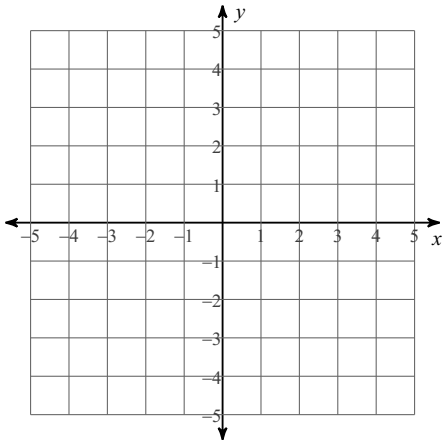
5) $x + 2y = 2$
$x - y = -4$



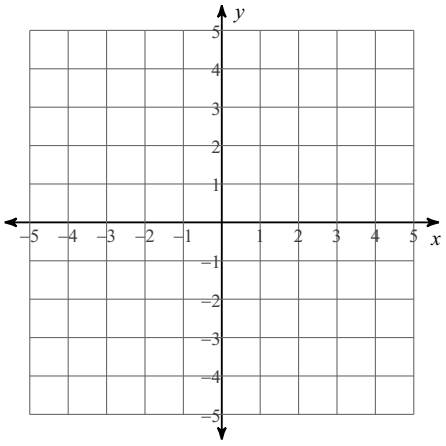
6) $x - 2y = -4$
$x + y = -1$



7) $-x + 1 = \frac{1}{2}y$
$-2x = 3y + 6$



8) $-3y - 3 = -2x$
$x = -y + 4$



9) Darryl's school is selling tickets to the annual talent show. On the first day of ticket sales the school sold 10 adult tickets and 5 child tickets for a total of $165. The school took in $220 on the second day by selling 14 adult tickets and 6 child tickets. Find the price of an adult ticket and the price of a child ticket.

10) Sumalee and Paul are selling pies for a school fundraiser. Customers can buy cherry pies and lemon meringue pies. Sumalee sold 1 cherry pie and 10 lemon meringue pies for a total of $65. Paul sold 3 cherry pies and 6 lemon meringue pies for a total of $51. Find the cost each of one cherry pie and one lemon meringue pie.

Answers to Solve by Graphing (ID: 1)

1) $(2, -1)$
2) $(4, 4)$
3) No solution
4) $(-4, 4)$
5) $(-2, 2)$
6) $(-2, 1)$
7) $(3, -4)$
8) $(3, 1)$
9) adult ticket: \$11, child ticket: \$11
10) cherry pie: \$5, lemon meringue pie: \$6