

Algebra

Week 13

Date	Assignment
Monday 11/14/11	6-1 Solving Systems of Linear Equations by Graphing <ul style="list-style-type: none">• Worksheet BA264 1-12 all,• Pg 332 8, 16 and 17.
Tuesday 11/15/11	6-2 Solving Systems of Linear Equations by Substitution <ul style="list-style-type: none">• Worksheet BA271 1-16,• Pg 340 7, 17 and 25.
Wednesday 11/16/11	6-3 Solving Systems of Equations by Elimination <ul style="list-style-type: none">• Worksheet BA273 1-8,• Worksheet BA278 1-8.
Thursday 11/17/11	6-3 Solving Systems of Equations by Elimination <ul style="list-style-type: none">• Worksheet BA281 1-15,• Worksheet BA282 1-5.
Friday 11/18/11	6-3 Solving Systems of Equations by Elimination <ul style="list-style-type: none">• Pg 347-348 1-10, 20-22.
<i>As always, student success may require a change to these plans mid-week.</i>	

6-1 Solving Systems of Linear Equations by Graphing

- Worksheet BA264 1-12 all,
- Pg 332 8, 16 and 17.

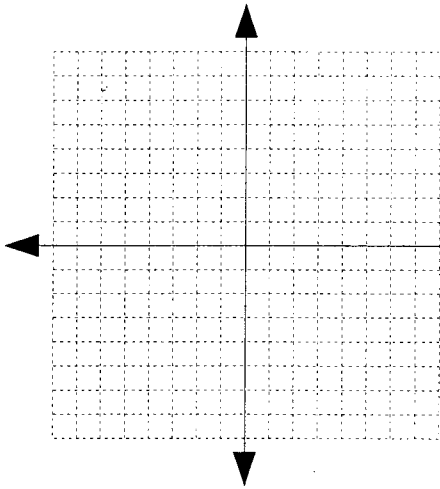
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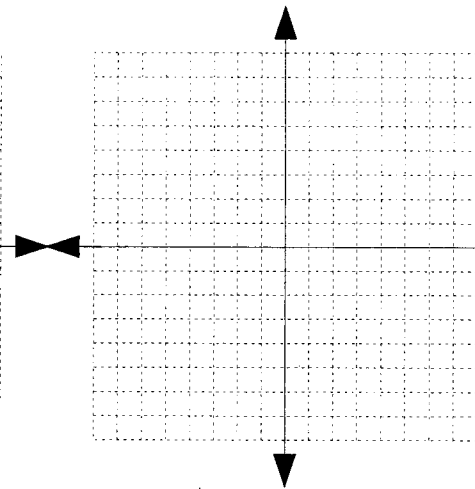
Period 1 2 3 4 5 6 7

For each system of equations, graph each linear equation and find the solution.
For 7 through 12, solve each for y before you attempt a graph.

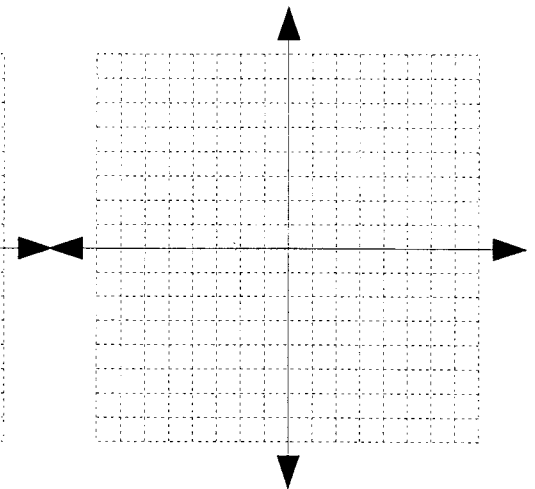
1. $y = -x$
 $y = 3x - 4$



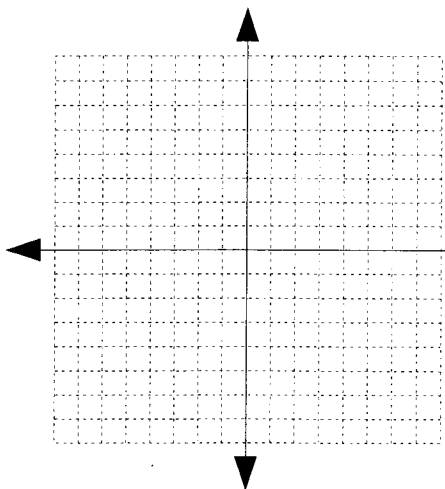
2. $y = x + 1$
 $y = -x + 3$



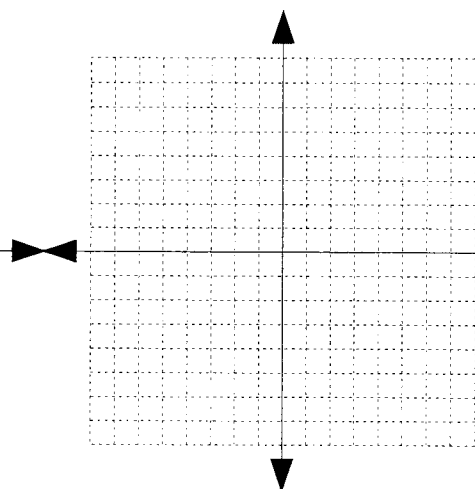
3. $y = -x - 1$
 $y = 3x - 7$



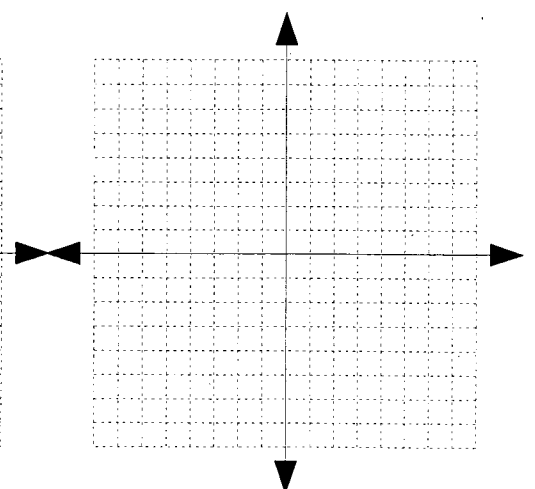
4. $y = 2x$
 $y = -2x - 4$



5. $y = -3x + 2$
 $y = 2x - 3$



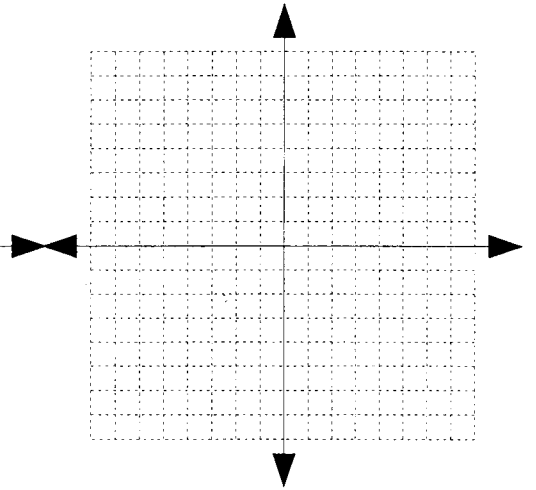
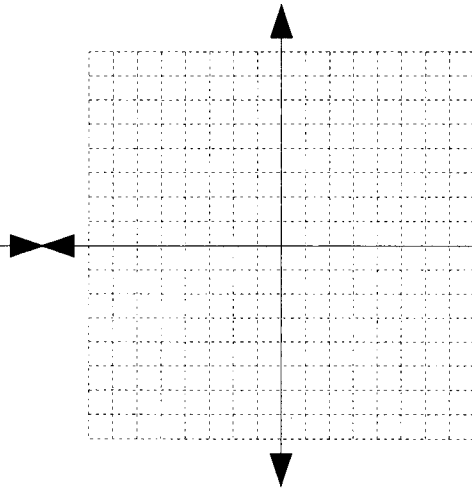
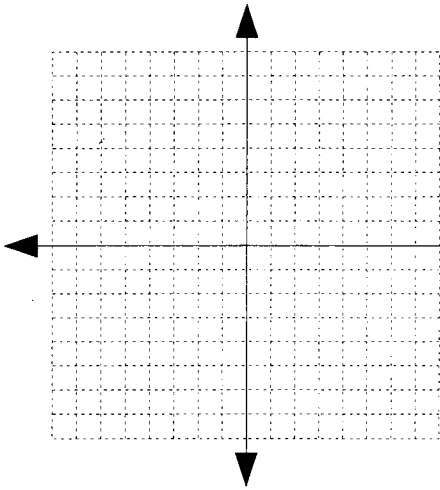
6. $y = 2x + 6$
 $y = -x - 3$



7. $y-x=0$
 $y+x=4$

8. $y-x=3$
 $x+y=-1$

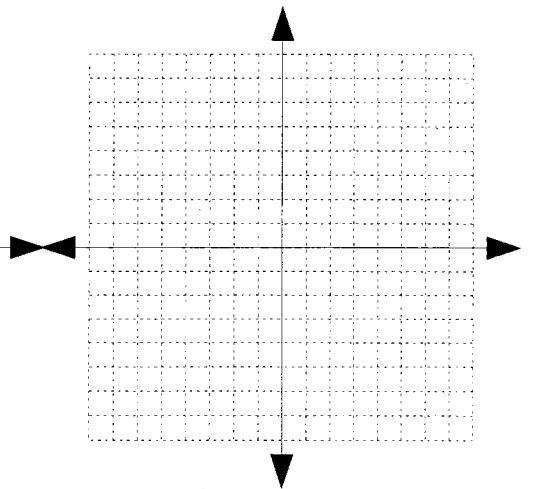
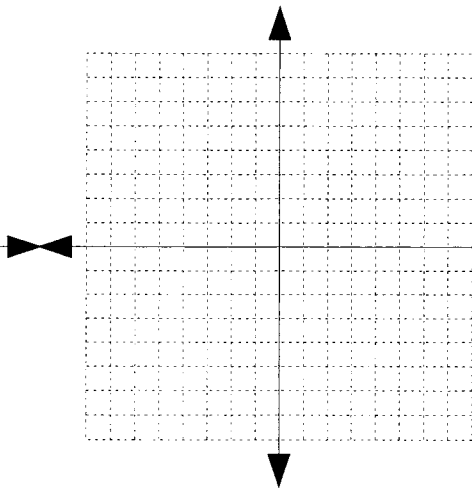
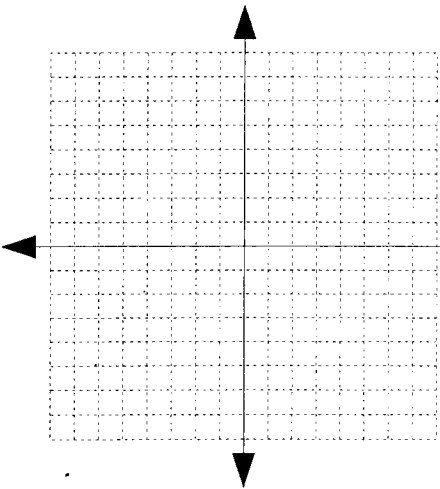
9. $x+y=-4$
 $y-2x=5$



10. $y-x=0$
 $y+3x=-4$

11. $y-3x=-1$
 $y-2x=1$

12. $y-2x=-5$
 $y-x=-3$



6-2 Solving Systems of Linear Equations by Substitution

- Worksheet BA271 1-16,
- Pg 340 7, 17 and 25.

Name _____

Date _____

Period 1 2 3 4 5 6 7

Solve each system of Linear Equations by substitution in the space provided, Show all your work.

1. $\begin{aligned} y &= 2x \\ x + y &= 9 \end{aligned}$	2. $\begin{aligned} y &= 5 \\ y - x &= 8 \end{aligned}$	3. $\begin{aligned} y &= x + 3 \\ x + y &= 7 \end{aligned}$
4. $\begin{aligned} y &= x + 1 \\ x + y &= 5 \end{aligned}$	5. $\begin{aligned} y &= x + 4 \\ x + y &= 22 \end{aligned}$	6. $\begin{aligned} x &= 2 - y \\ 2y + x &= 9 \end{aligned}$
7. $\begin{aligned} y &= 3x + 1 \\ 4x + y &= 8 \end{aligned}$	8. $\begin{aligned} y &= 2x - 3 \\ 4x + y &= 9 \end{aligned}$	9. $\begin{aligned} x + y &= 2 \\ 3x + y &= 8 \end{aligned}$

10. $2x + y = 5$
 $4x - y = 1$

11. $3x - y = 13$
 $2x + 3y = 16$

12. $2x - y = 9$
 $5x + 2y = 27$

13. $x = 5y$
 $3x = 7y$

14. $x - 5y = 8$
 $4x + 2y = 10$

15. $a + 2b = 7$
 $2a = 3b$

16. $p - 5q = 6$
 $3p - 2q = 5$

6-3 Solving Systems of Equations by Elimination

- Worksheet BA273 1-8,
- Worksheet BA278 1-8.

Name _____

Date _____

Period 1 2 3 4 5 6 7

Solve each system of linear equations by elimination. Show all your work in the space provided.

1. $x + y = 2$ $x - y = 10$	2. $5x + 4y = 1$ $3x - 4y = 7$	3. $4x - y = 8$ $2x + y = -2$	4. $5p + 3q = 10$ $2p - 3q = 4$
5. $2a - b = 3$ $4a + b = 9$	6. $2x + y = 10$ $3x - y = 5$	7. $3x - 2y = 8$ $x + 2y = 8$	8. $4r - 7s = 13$ $4r + 7s = -29$

<p>1. The sum of two numbers is 35. Their difference is 13. Find the numbers.</p>	<p>2. The sum of two numbers is 48. One number is 3 times the other. Find the numbers.</p>
<p>3. One number is 9 more than another number. The sum of the numbers is 53. Find the numbers.</p>	<p>4. One number is 6 times another number. It is also 12 more than twice the other number. Find the numbers.</p>
<p>5. A coat costs twice as much as a pair of pants. Together, they cost \$180. Find the cost of each.</p>	<p>6. Arlene is 7 years older than Todd. Their ages total 43. How old is each?</p>
<p>7. The 2008 rainfall in a city was 18cm more than in 2007. The combined rainfall for the two years was 150cm. Find the rainfall for each year.</p>	<p>8. The Outdoor Club has 35 members. There are 3 more climbers than skiers. How many climbers are there?</p>

6-3 Solving Systems of Equations by Elimination

- Worksheet BA281 1-15,
- Worksheet BA282 1-5.

Name _____

Date _____

Period 1 2 3 4 5 6 7

Solve each system of equations by elimination. Show all your work.

1. $a + b = 9$
 $2a - 3b = 3$

2. $x - 4y = 5$
 $2x - 7y = 9$

3. $y - 3x = 9$
 $2y + x = 4$

4. $a + 3b = 16$
 $2a - b = 4$

5. $3m + n = 10$
 $m + 2n = 10$

6. $3x - y = 5$
 $x + 2y = 11$

7. $3x - 4y = 1$
 $-x - 2y = 3$

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

9. $2x - 3y = 6$
 $x - 2y = 3$

10. $6x - 5y = 7$
 $2x + 2y = -16$

11. $9x + 6y = 0$
 $3x + 5y = -9$

12. $5m - 2n = 14$
 $3m + 4n = -2$

13. $3a + 2b = 6$
 $-4a + 6b = 44$

14. $5a + 4b = 7$
 $3a + 2b = 3$

15. $5x - 9y = -3$
 $4x - 3y = 6$