Section 5.1 Puzzle Time
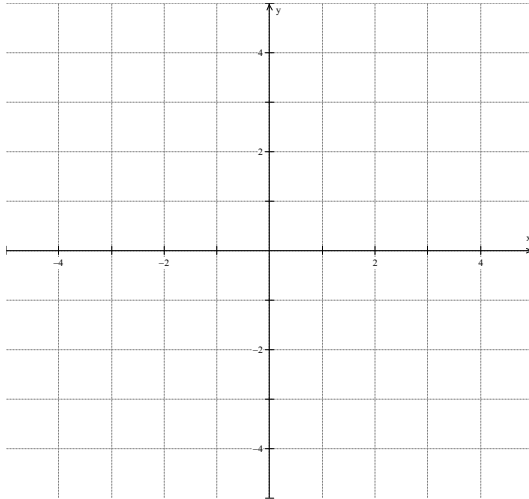
Name:_____

(Solving Systems of Linear Equations by Graphing)
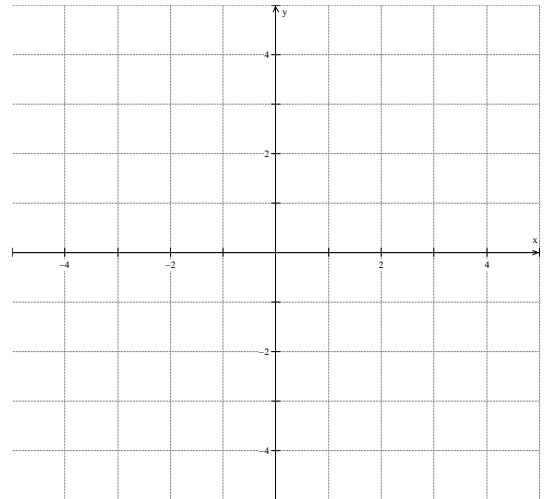
Use this sheet to graph the systems on the other piece of paper.
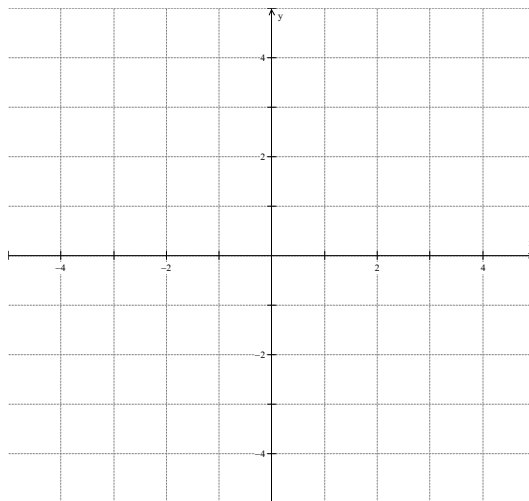
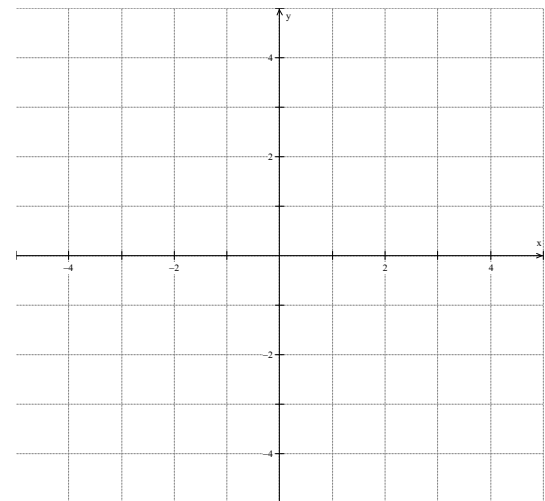A.

B.

C.

D.

E.
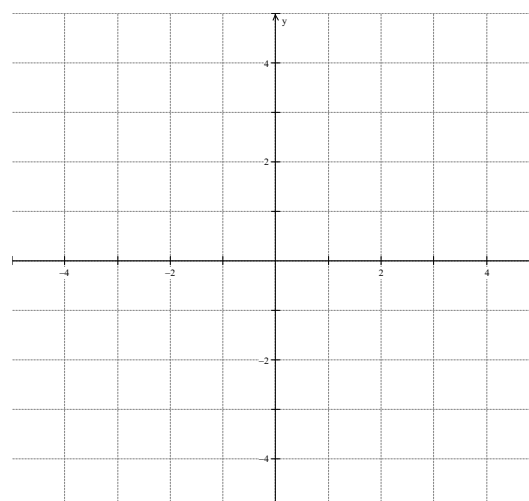
F.

G.

H.

I.

J.   Let x = the cost of a cantaloupe
     Let y = the cost of a watermelon

$$2x + y = 9$$

$$x + y = 6$$

5.1 Puzzle Time

Why Did The Student Eat His Homework?

A	B	C	D	E	F
G	H	I	J		

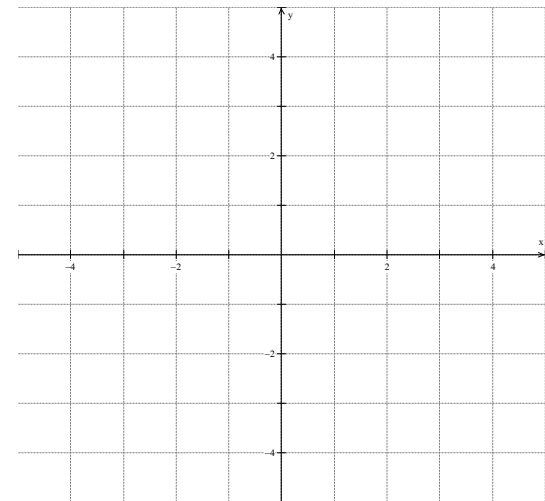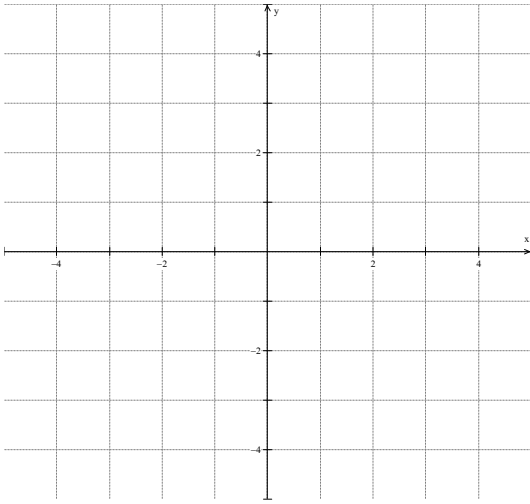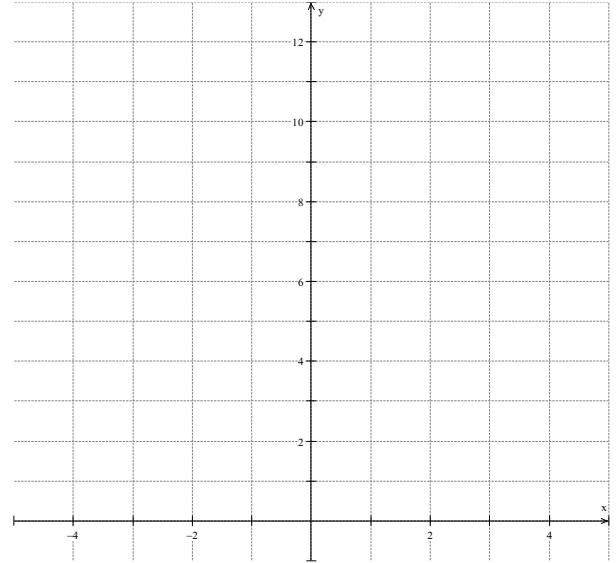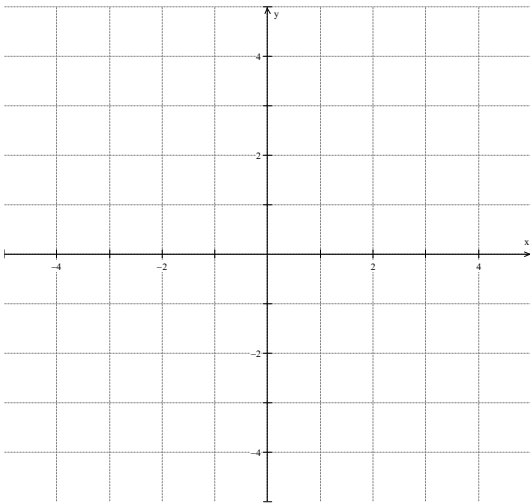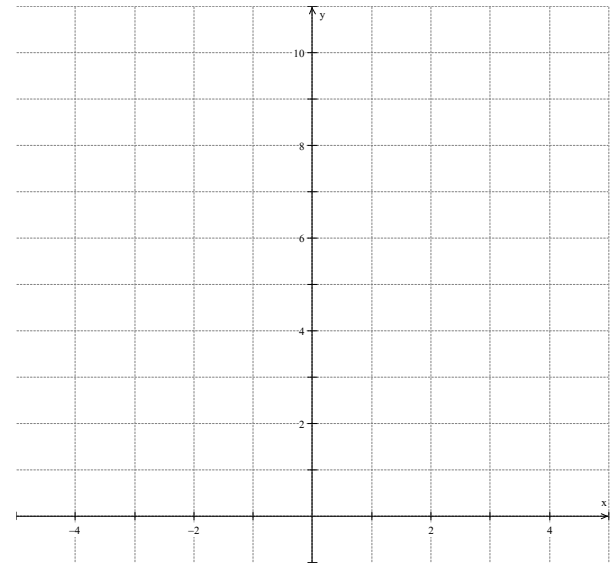Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

(-4, 4) STUDENT
(0, 0) THE
(1, 8) PIECE
(-2, 1) DOG
(3, 0) IT
(5, -3) HER
(3, 3) CAKE
(-3, 5) ICING
(0, 2) HIM

Solve the system of linear equations by graphing.

A. $y = x$
   $y = -x$

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

C. $y = 2x$
   $y = 4x + 2$

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

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

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

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

H. $4x + y = 12$
   $y = 4x + 4$

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

J. At a grocery store, Candy buys 2 cantaloupes at x dollars each and 1 watermelon at y dollars. Her total bill is $9. Chip goes to the same grocery store and buys 1 cantaloupe at x dollars and 1 watermelon at y dollars. His total bill is $6. Write and solve a system of linear equations by graphing to find the cost x of a cantaloupe and the cost y of a watermelon.

(-1, -2) TOLD
(1, -2) OF
(5, 0) HERSELF
(2, 0) WAS
(8, 1) ATE
(2, 1) A
(0, -6) HOMEWORK
(-2, -1) TEACHER
(7, 7) SAID