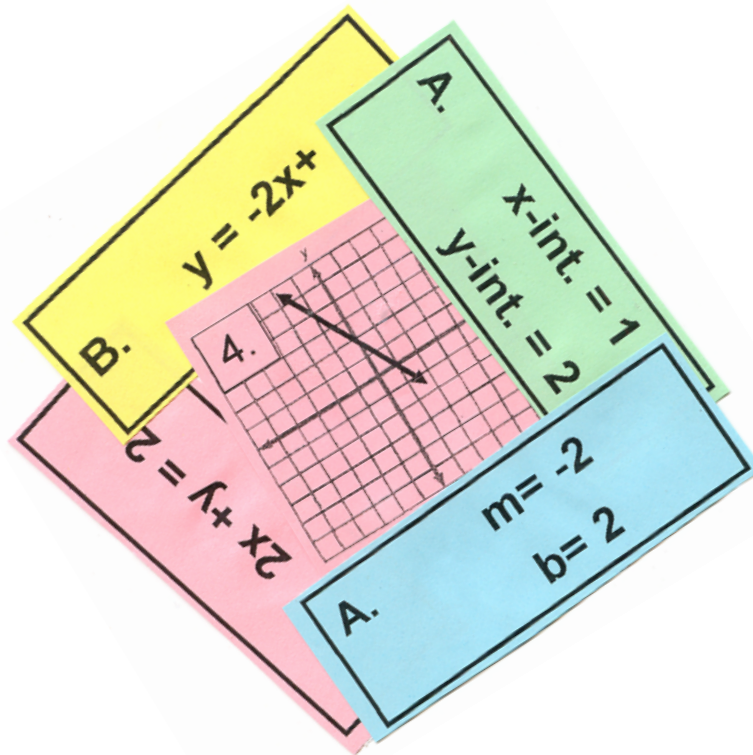


# Matching Mania

## for

### Algebra I



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## Suggestions for MatchingMania

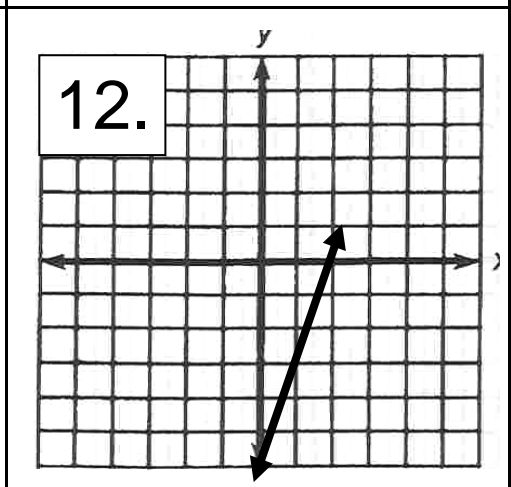
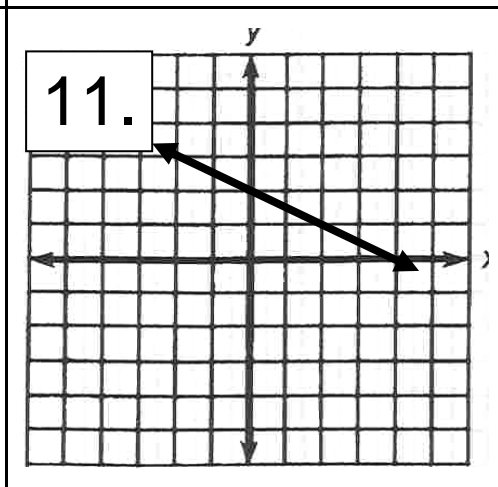
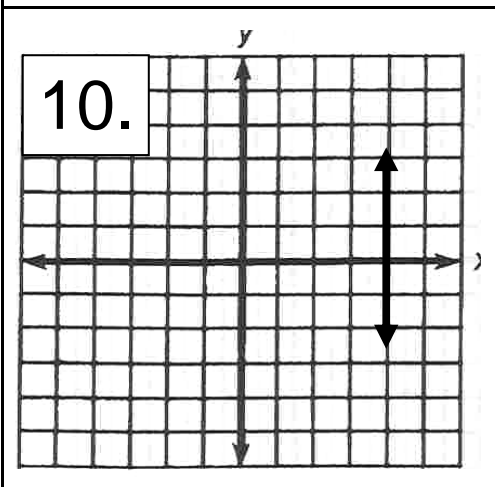
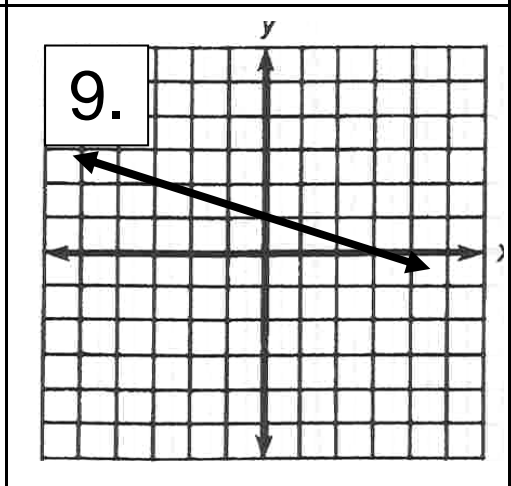
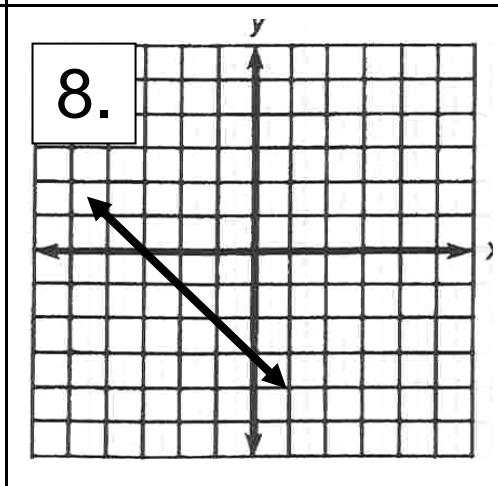
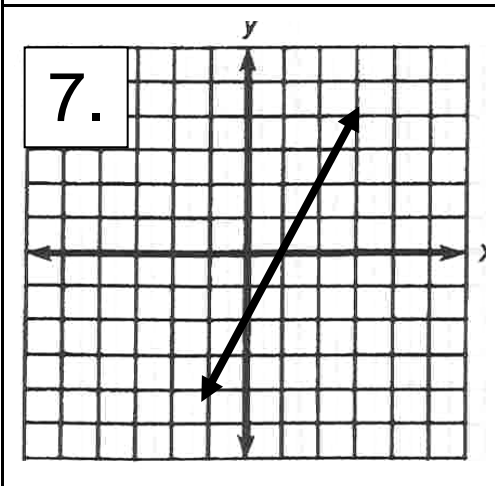
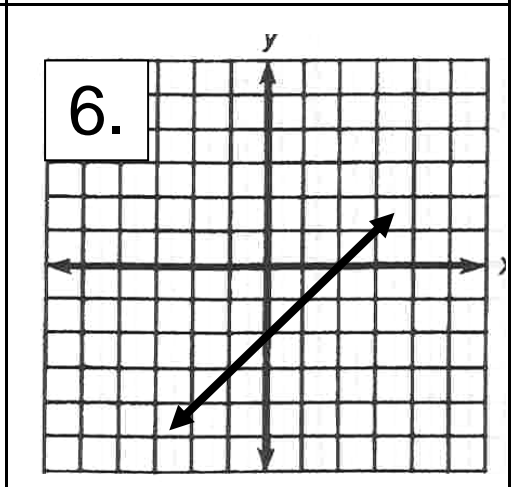
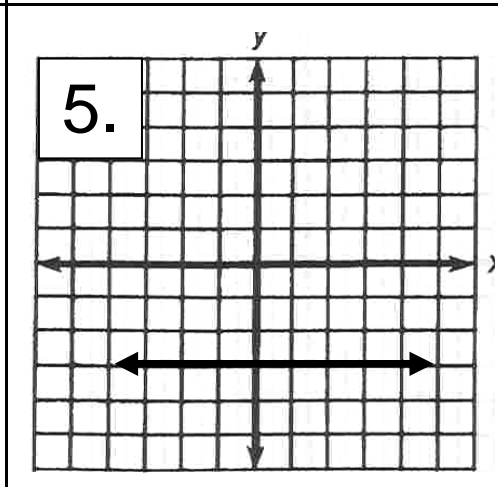
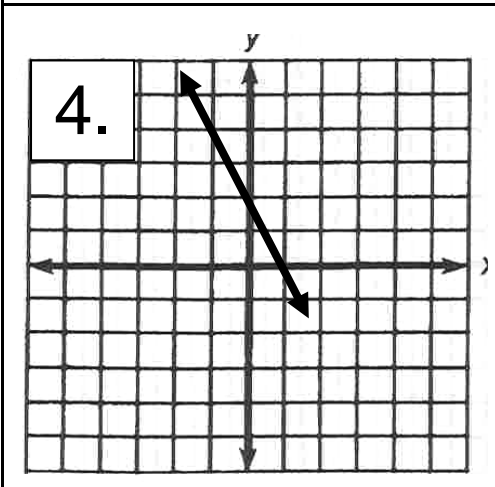
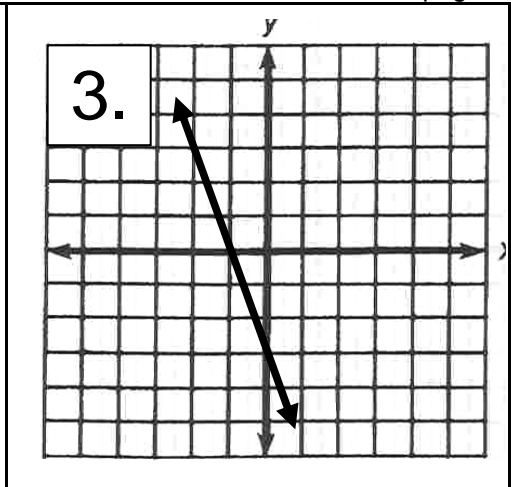
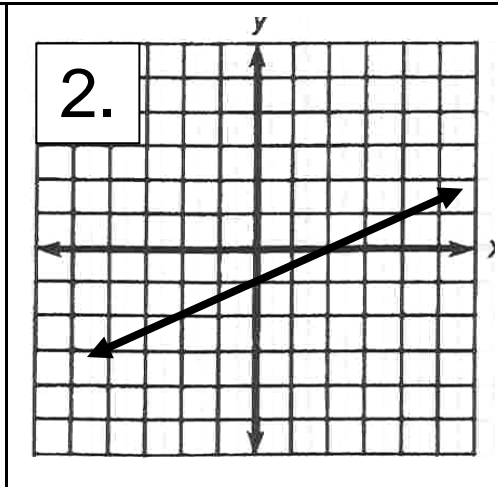
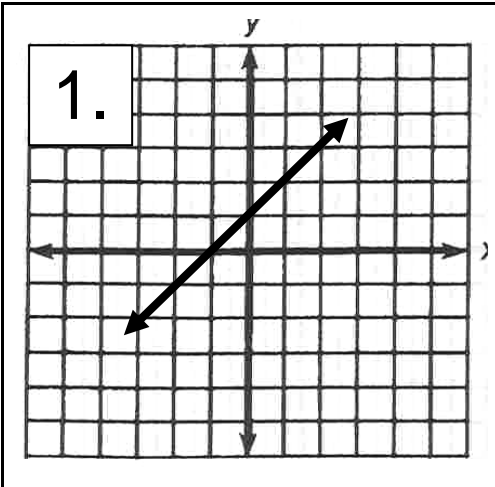
- 1 All worksheets are numbered down the left side for the number of problems within the activity. The different concepts or answers are listed across the top of the worksheet.
- 1 Run off each concept within the activity on different colored paper or card stock. This way, the students can easily identify the problem from the answer(s).
- 2 Once the students have completed the activity, have them alphabetize the concepts for use next time. This allows the answers to be mixed up and does not help the next group work the problems more easily.
- 3 The first time you run off a set of MatchingMania cards, you will spend some time cutting out each activity. If you will have the students near the end of the class period help you cut the cards out, this saves time for you and they will sometimes "own" the activity.
- 4 Use zipper lock quart size bags to store each set of MatchingMania activity cards. Use gallon bags to store all the individual activity cards, as well as extra answer sheets and the answer key.

# Linear Function MatchingMania

- 1 Linear Function MatchingMania consists of 12 linear graphs. The lines may then be identified by slope-intercept form, standard form, slope and y-intercept or by the x and y intercepts. Students may identify all forms or just the forms chosen by the teacher.
- 2 The worksheet, graphs and the appropriate forms of the answer are listed below:
  - page 1**    **Worksheet**
  - page 2**    **The graphs of the lines**
  - page 3**    **The equations of the lines in slope-intercept form**
  - page 4**    **The equations of the lines in standard form**
  - page 5**    **The slope (m) and y-intercept (b) of each line**
  - page 6**    **The x and y-intercepts**
- 3 Divide the students into groups of 2. Then hand each group 2 worksheets and a bag of Linear Function MatchingMania cards. Students work as a pair matching the appropriate solution(s) to the graphs, but will individually fill out their own worksheets.
- 4 When the students complete this activity, they return the MatchingMania cards back to the plastic storage bag and hand the worksheets in to the teacher.

# LINEAR FUNCTION WORKSHEET

Graph	Slope Intercept form	Standard Form	Slope and y-intercept	x and y intercepts
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				



**A.**      **x-int. = 1**

**y-int. = 2**

**B.**      **x-int. = 3**

**y-int. = 1**

**C.**      **x-int. = 4**

**y-int. = 2**

**D.**      **x-int. = -1**

**y-int. = 1**

**E.**      **x-int. = 2**

**y-int. = -1**

**F.**      **x-int. = 1**

**y-int. = -2**

**G.**      **x-int. = 4**

**no y-int.**

**H.**      **x-int. = -1**

**y-int. = -3**

**I.**      **no x-int.**

**y-int. = -3**

**J.**      **x-int. = -3**

**y-int. = -3**

**K.**      **x-int. = 2**

**y-int. = -6**

**L.**      **x-int. = 2**

**y-int. = -2**



**A.       $y = -3x - 3$**

**B.       $y = -2x + 2$**

**C.       $y = 1/2x - 1$**

**D.       $y = 2x - 2$**

**E.       $x = 4$**

**F.       $y = x + 1$**

**G.       $y = -1/2x + 2$**

**H.       $y = -x - 3$**

**I.       $y = -1/3x + 1$**

**J.       $y = -3$**

**K.       $y = x - 2$**

**L.       $y = 3x - 6$**

**A.       $3x - y = 6$**

**B.       $x - y = -1$**

**C.       $x - 2y = 2$**

**D.       $x = 4$**

**E.       $x + 3y = 3$**

**F.       $2x - y = 2$**

**G.       $y = -3$**

**H.       $x - y = 2$**

**I.       $2x + y = 2$**

**J.       $3x + y = -3$**

**K.       $x + 2y = 4$**

**L.       $x + y = -3$**

**A.**  $m = -2$

$b = 2$

**B.**  $m = 2$

$b = -2$

**C.**  $m = -1/2$

$b = 2$

**D.**  $m = 1$

$b = 1$

**E.**  $m = -1$

$b = -3$

**F.**  $m = 0$

$b = -3$

**G.**  $m = 1/2$

$b = -1$

**H.**  $m = -1/3$

$b = 1$

**I.**  $m = 1$

$b = -2$

**J.**  $m = -3$

$b = -3$

**K.**  $m = 3$

$b = -6$

**L.**  $m$  is undef.

no  $b$  value