

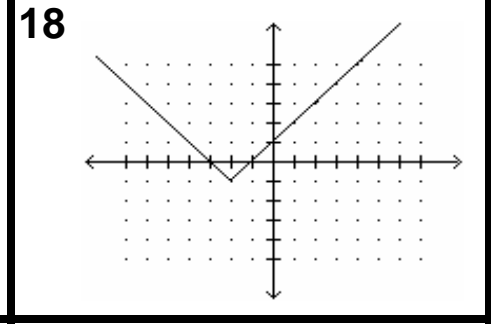
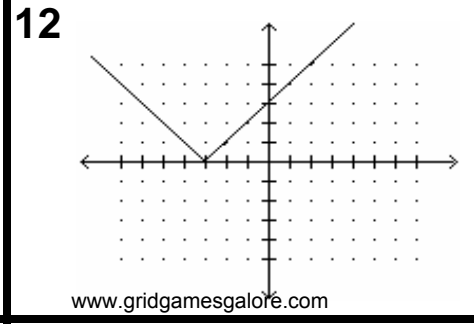
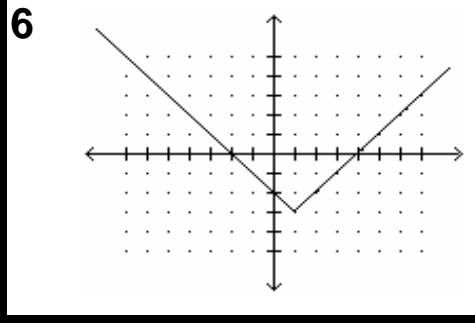
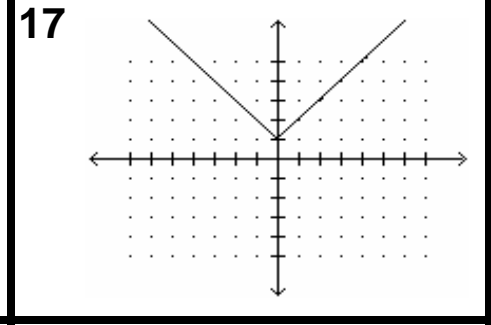
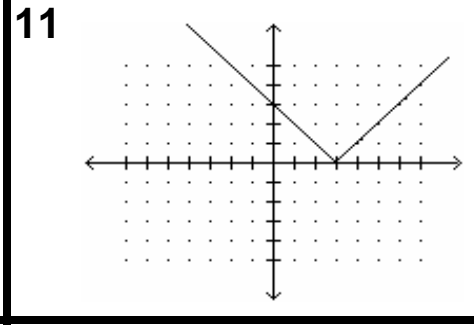
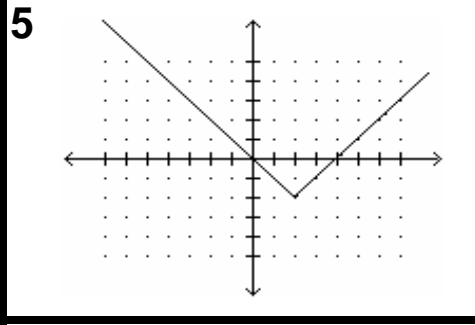
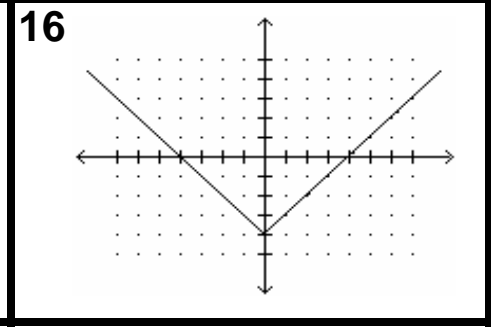
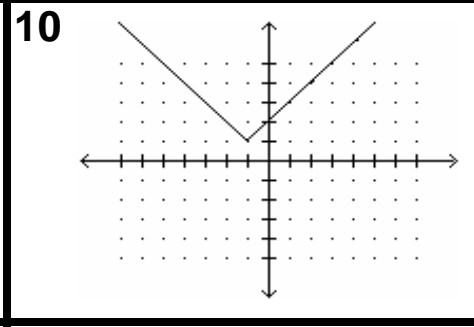
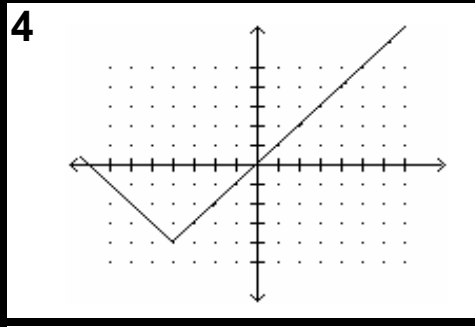
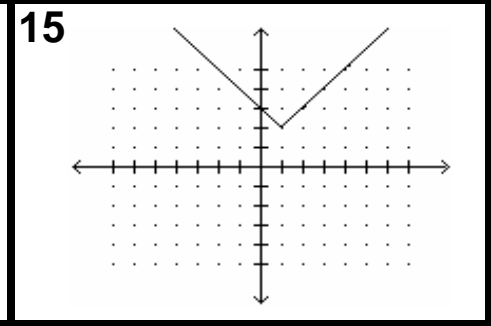
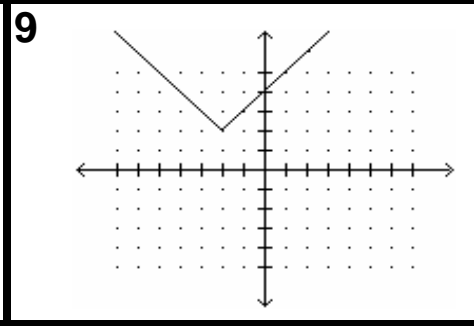
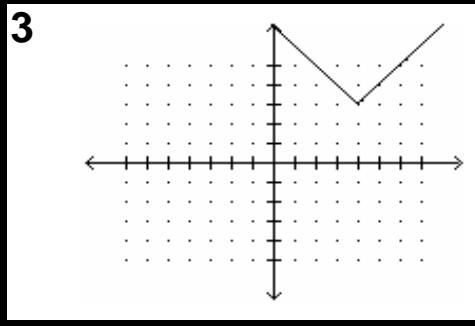
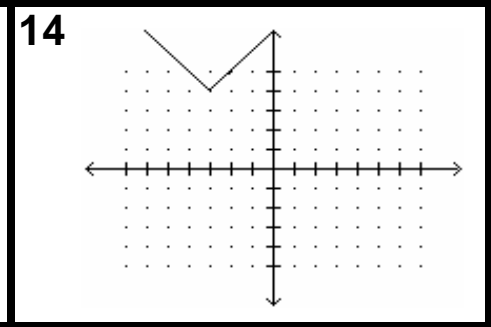
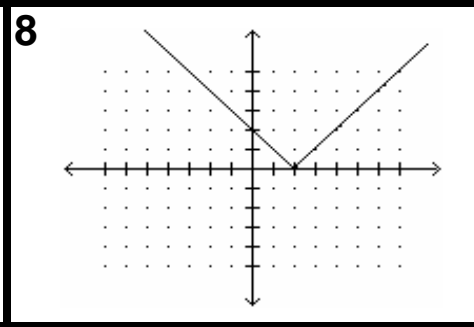
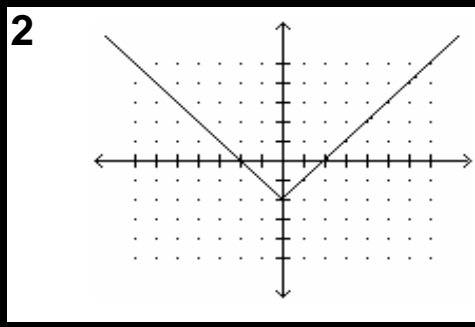
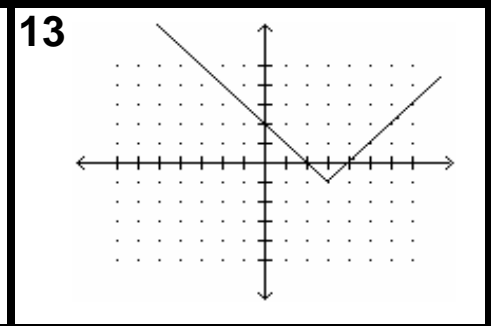
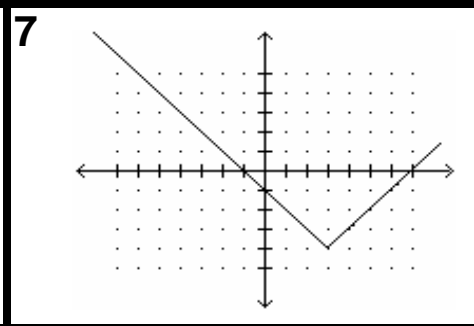
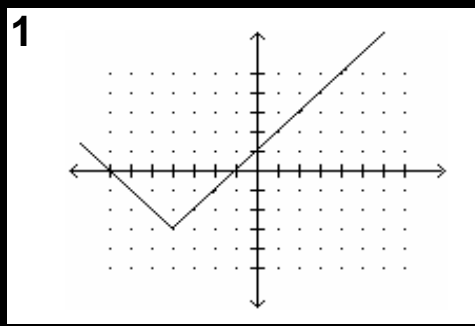
Absolute Value Transformations

MatchingMania

- 1 Absolute Value Transformations MatchingMania consists of 18 absolute value graphs. The graphs are then to be identified by their equation, as well as their transformation when compared to the parent graph $y = |x|$.
- 2 The worksheet, graphs and the appropriate forms of the answer are listed below:
 - page 1** **Worksheet**
 - page 2** **The graphs of the absolute value functions**
 - page 3** **The equations of the graphs**
 - page 4** **The movement of the graph in comparison to the parent graph**
- 3 Divide the students into groups of 2. Then hand each group 2 worksheets and a bag of Absolute Value Transformation MatchingMania cards. Students work as a pair matching the appropriate solutions to each graph, 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.

Absolute Value Transformations Worksheet

Graph	Equation	Movement
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		



a. $y = x-2 -2$	r. $y = x+3 +4$
b. $y = x-2 $	q. $y = x+2 -1$
c. $y = x+4 -3$	p. $y = x-1 +2$
d. $y = x -2$	o. $y = x +1$
e. $y = x+1 +1$	n. $y = x+4 -4$
f. $y = x+2 +2$	m. $y = x-3 -4$
g. $y = x+3 $	l. $y = x -4$
h. $y = x-3 -1$	k. $y = x-1 -3$
i. $y = x-4 +3$	j. $y = x-3 $

A. down 2	R. left 3
B. right 1 up 2	Q. left 4 down 3
C. right 1 down 3	P. up 1
D. left 4 down 4	O. right 2
E. right 3 down 4	N. down 4
F. left 1 up 1	M. right 2 down 2
G. left 3 up 4	L. right 3 down 1
H. right 3	K. left 2 down 1
I. right 4 up 3	J. left 2 up 2