March 28, 2011

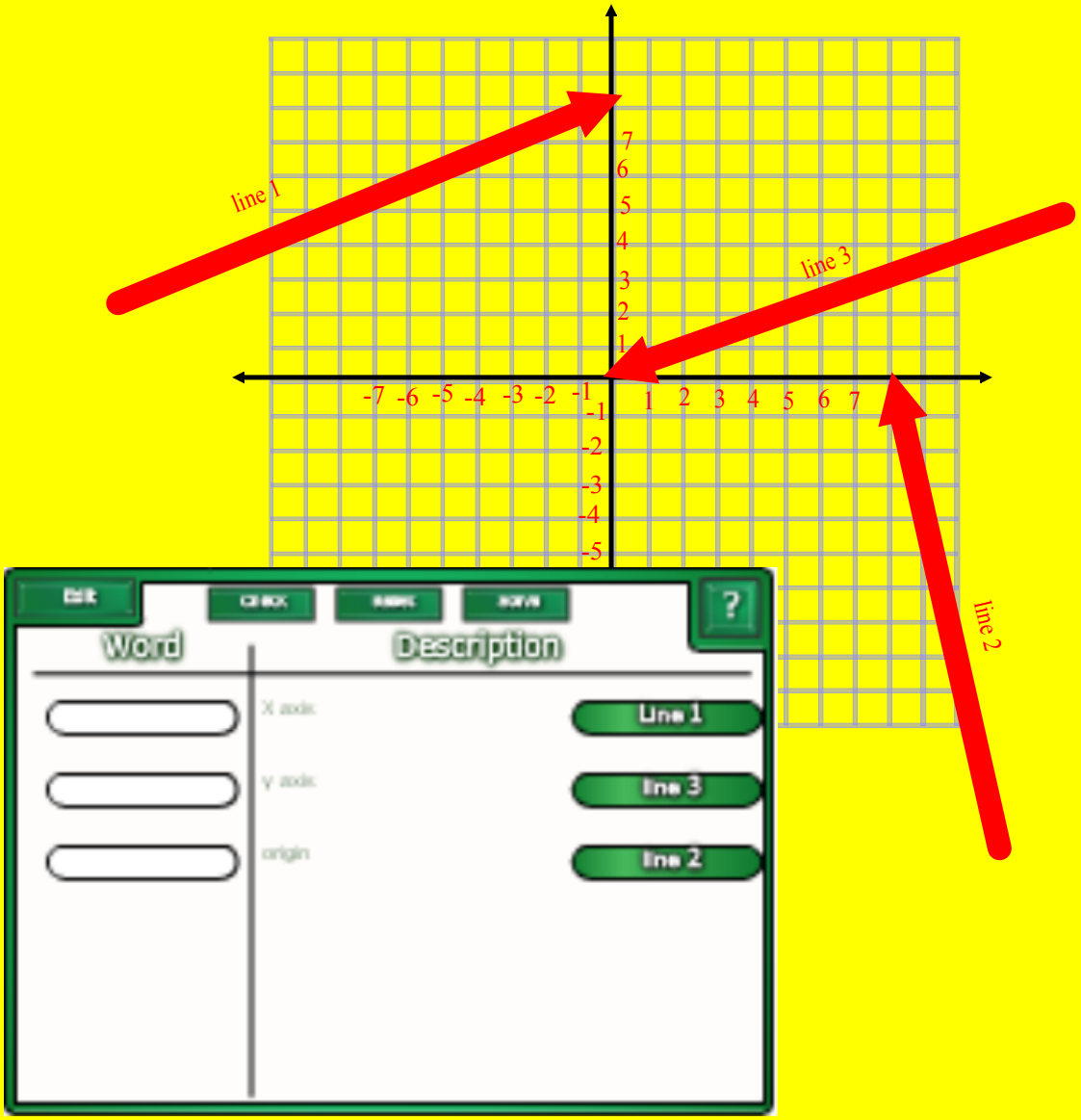
4 days to go...
Slope & Y-Intercept activity!

Homework: Bring in a pair of headphones (any kind) if you have them.

Upcoming schedule ~

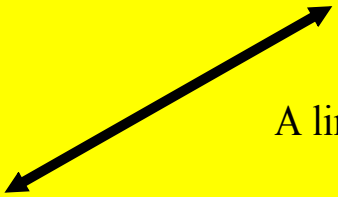
Today - Slope / Y-intercept activities
Tomorrow - MCA Practice on the computers
Wednesday - Review for Quiz 8.2
Thursday - Quiz 8.2 - It is 16 scantron questions and
1 fill-in-the-blank.
Friday - Spring Break

Monday, April 11th - Regular Day
Tuesday, April 12th - MCA Reading Test
Wednesday, April 13th - MCA Reading Test
Wednesday, April 21st - MCA Math Test (during math class)
Thursday, April 22nd - MCA Math Test (during math class)
Friday, April 23rd - MCA Math Test (during math class)
Monday, April 26th - MCA Math Make-Up testing
and extended time


line 1
line 3
line 2
7
6
5
4
3
2
1
-7 -6 -5 -4 -3 -2 -1 1 2 3 4 5 6 7
-1
-2
-3
-4
-5
?
Word
Description
X axis
y axis
origin
Line 1
line 3
line 2

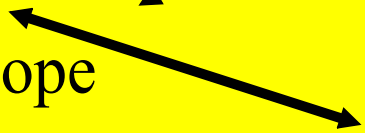
Four Types of Slope

Positive slope



A line that rises from left to right

Negative slope



A line that falls from left to right

Zero Slope

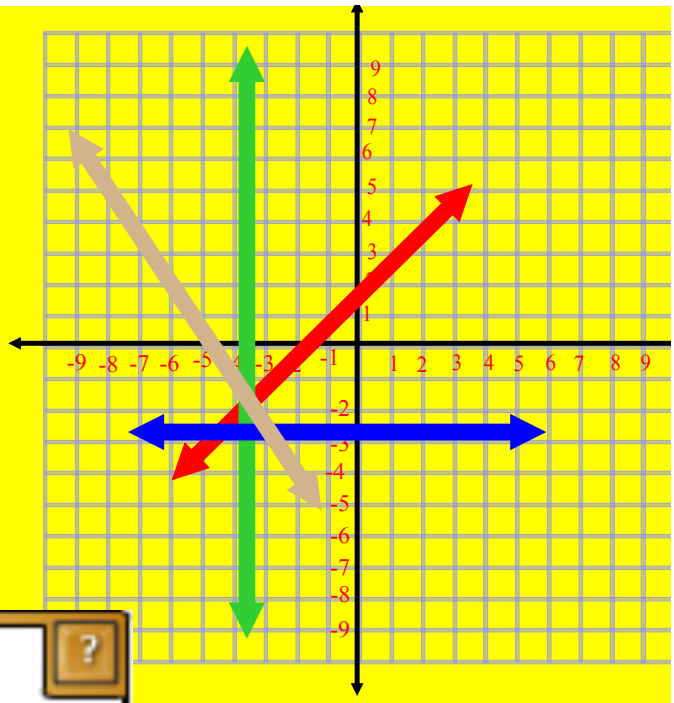
A line that is horizontal

Undefined Slope

NO

A line that is vertical

Practice

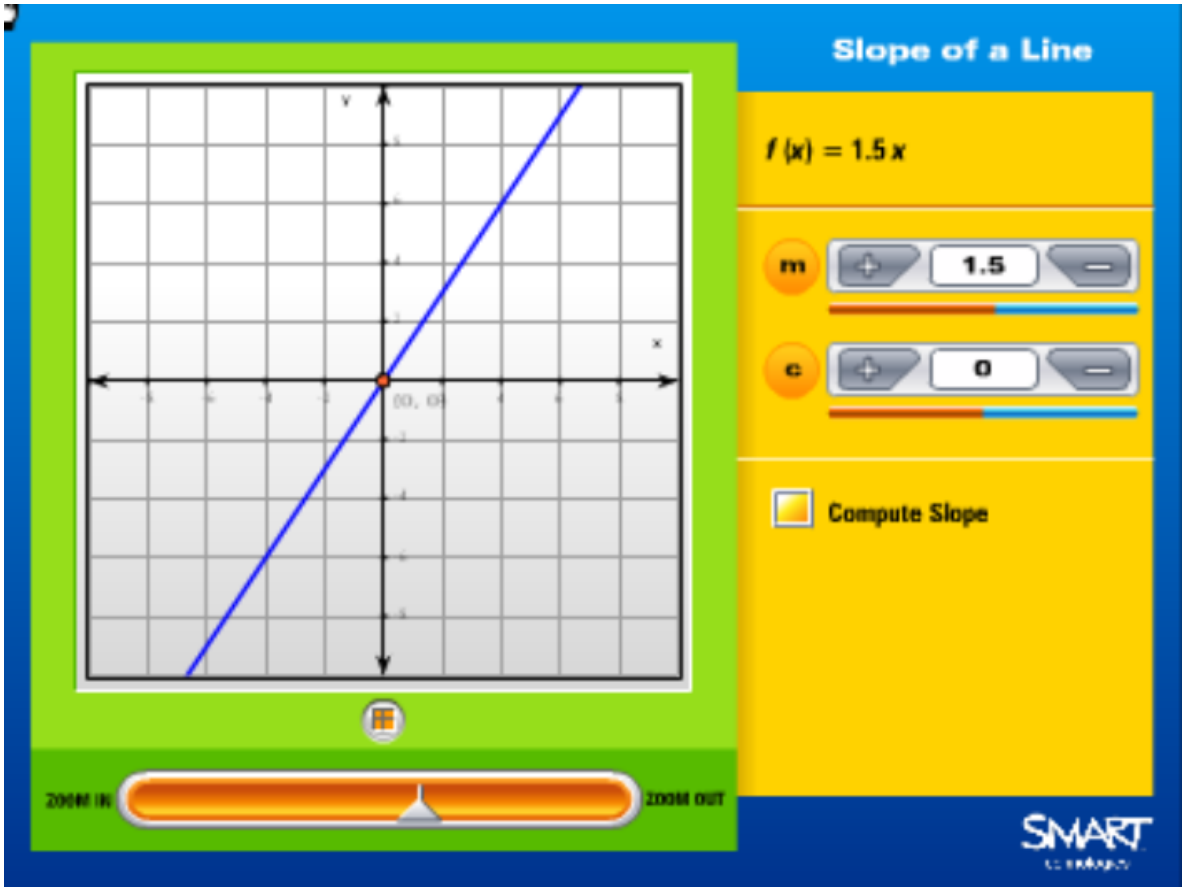

9
8
7
6
5
4
3
1
-9 -8 -7 -6 -5 -3 -1 1 2 3 4 5 6 7 8 9
-2
-4
-5
-6
-7
-8
-9

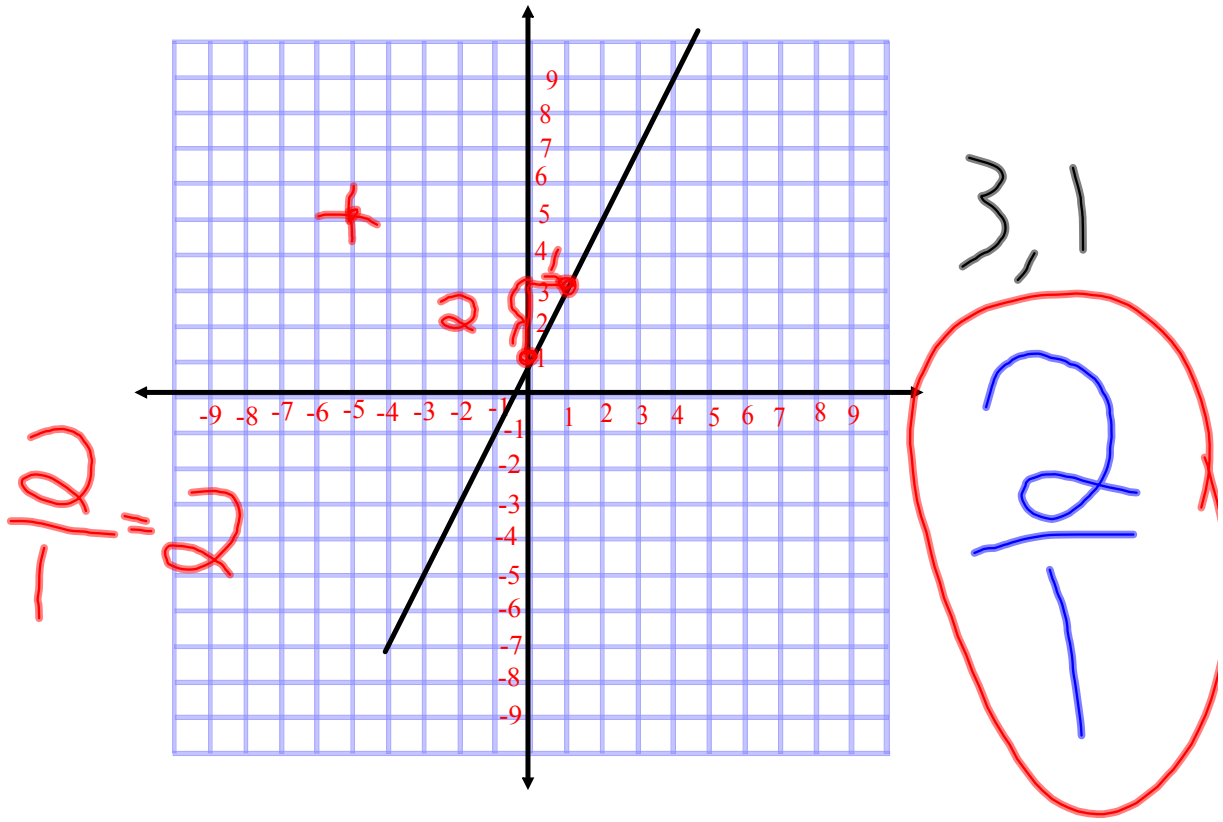

?
Word
Description
negative slope
zero slope
undefine slope
positive slope
blue line
red line
green line
brown line

$$\text{Slope} = \frac{\text{vertical rise}}{\text{horizontal run}}$$

The *slope* of a line is the ratio of the vertical rise to the horizontal run between any two points on the line.

Students can play and see examples of how positive and negative slope works.
Increase slope and change y intercept




9
8
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-9 -8 -7 -6 -5 -4 -3 -2 -1 1 2 3 4 5 6 7 8 9
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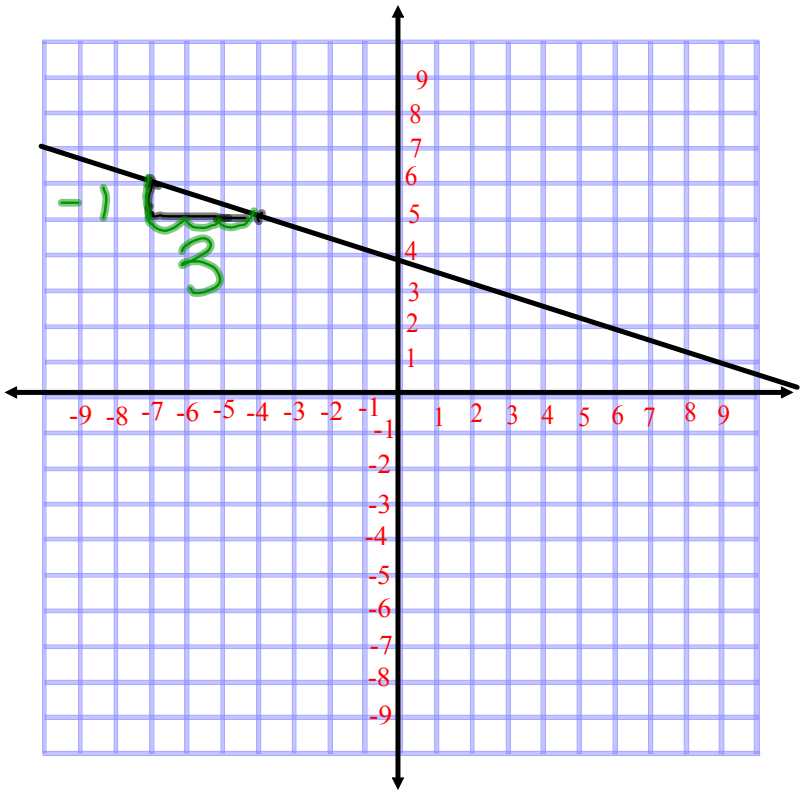
-2
-3
-4
-5
-6
-7
-8
-9
4
2
3, 1
-12 = 2
2
1

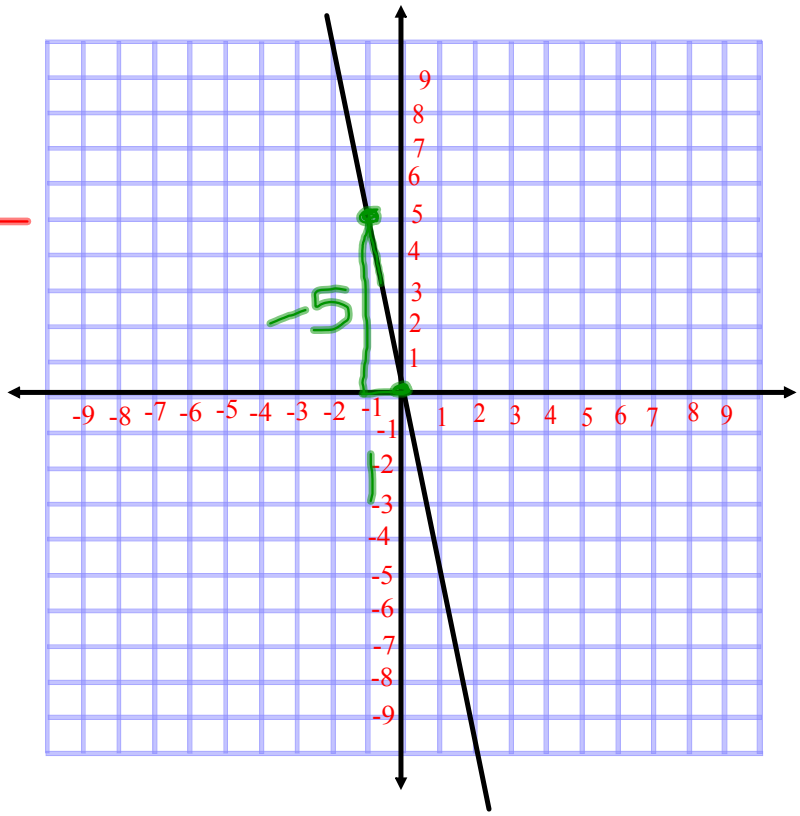


-1, 3

-1, 3

$\frac{-1}{3}$

$\frac{-4}{1}$



$\frac{-5}{1}$

$\frac{-5}{1} = -5$