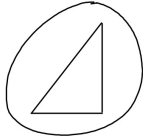
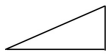


3.3 The Slope of a Line

Which hill is steeper?

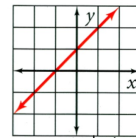


slope - is like steepness of a hill

slope = $\frac{\text{rise} \leftarrow \text{vertical change (height)}}{\text{run} \leftarrow \text{horizontal change}}$

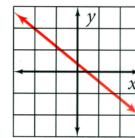
m - is used to represent slope

Types of Slopes: Look L → R



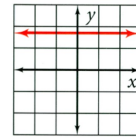
uphill

POSITIVE SLOPE

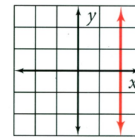


downhill

NEGATIVE SLOPE



level ground
horizontal
ZERO SLOPE



cliff
vertical
NO SLOPE OR UNDEFINED

Page 1

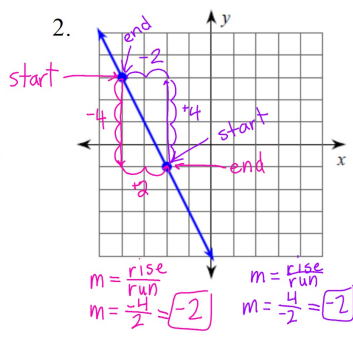
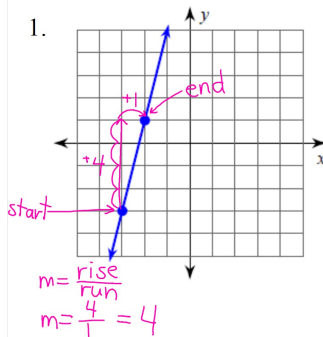
Page 2

Slope from pictures: Count boxes from point to point
(don't lift pencil)

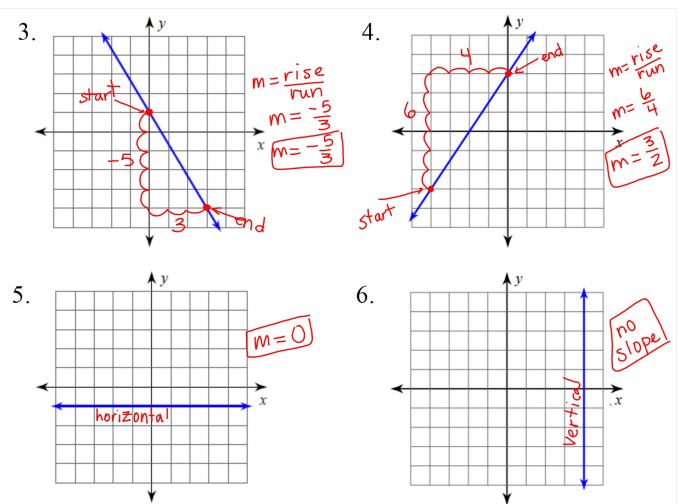
positive is: up and right

negative is: down and left

$$m = \frac{\text{rise}}{\text{run}}$$



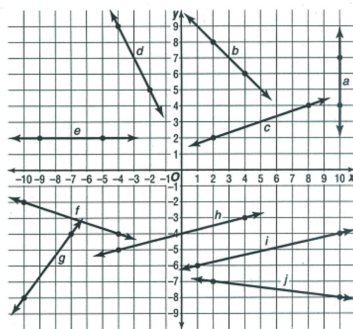
Page 3



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Determine the slope of each line.

1. a no slope
2. b $m = \frac{-2}{2}$
 $m = -1$
3. c $m = \frac{2}{6}$
 $m = \frac{1}{3}$
4. d $m = \frac{4}{-2}$
 $m = -2$
5. e $m = 0$
6. f $m = \frac{2}{-6}$
 $m = -\frac{1}{3}$
7. g $m = \frac{4}{3}$
8. h $m = \frac{2}{-4}$
 $m = -\frac{1}{2}$
9. i $m = \frac{2}{9}$
 $m = \frac{2}{9}$
10. j $m = \frac{-1}{8}$
 $m = -\frac{1}{8}$



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HOMEWORK

Worksheet - HW 3.3 Slope

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