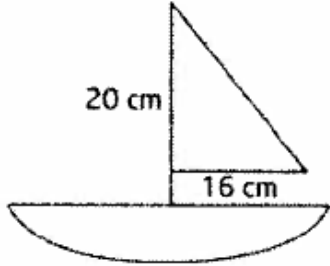


### 5.3 – Slope Worksheet #4

MPM1D

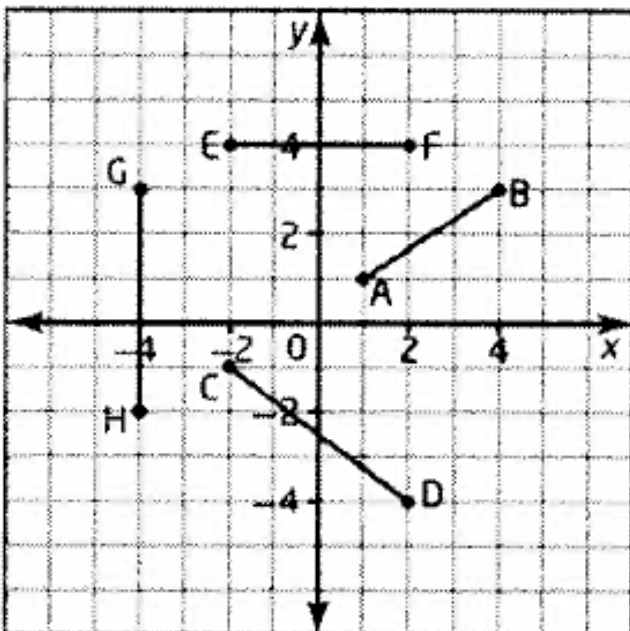
Jensen

1. Find the slope of the sail on the toy sailboat



2. A set of stairs is to be built so that each step has a vertical rise of 20 cm over a horizontal run of 27.5 cm. Find the slope, to the nearest hundredth.

3. Find the slope of each line



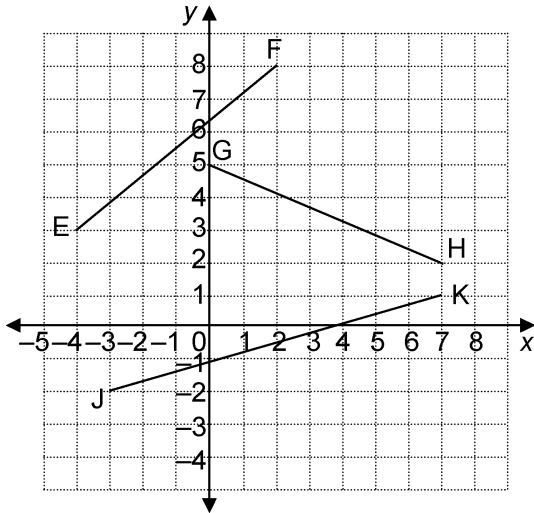
AB: \_\_\_\_\_

CD: \_\_\_\_\_

EF: \_\_\_\_\_

GH: \_\_\_\_\_

4. Find the slope of each line

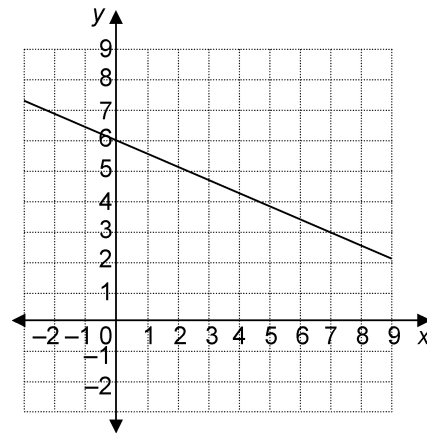


EF: \_\_\_\_\_

GH: \_\_\_\_\_

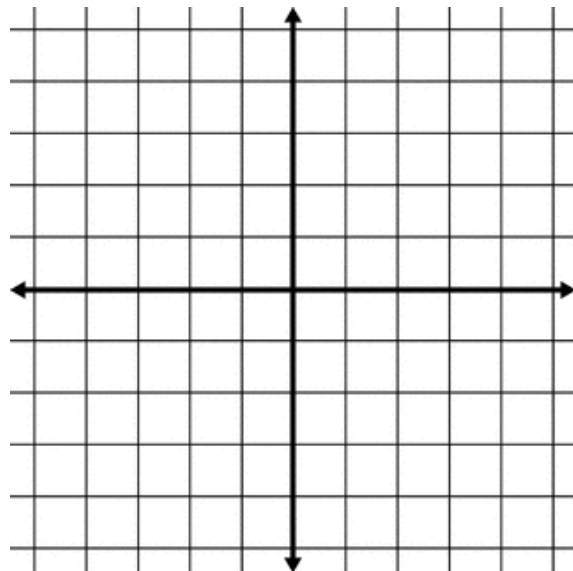
JK: \_\_\_\_\_

5. Find the slope of the following line:



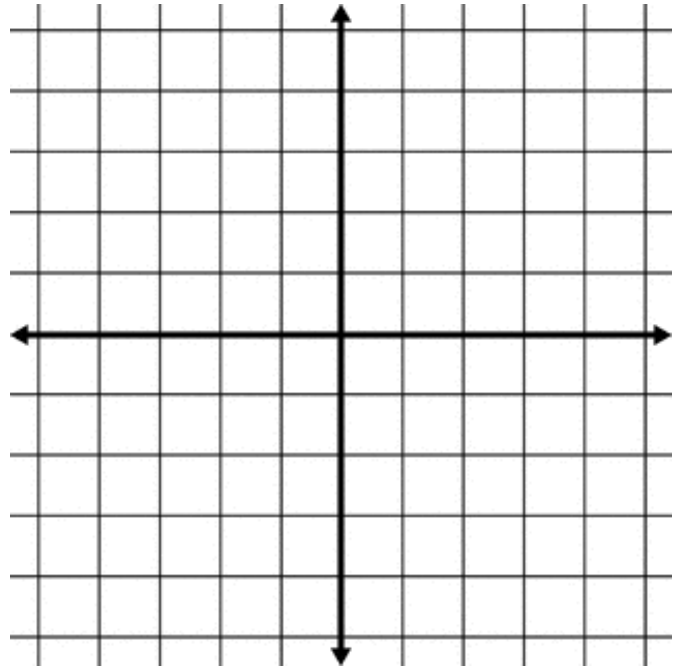
6. A line segment has one endpoint of  $A(-3, 2)$  and a slope of  $\frac{-1}{2}$ . Find the coordinates of a point to left and to the right of  $A$ . Use the graph to help and then record the new coordinates in the table of values.

$x$	$y$
-3	2

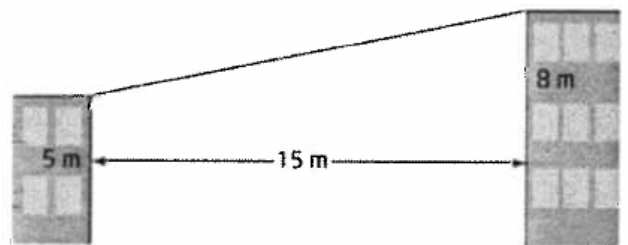


7. A line segment has one endpoint of A(2,1) and a slope of  $\frac{2}{3}$ . Find the coordinates of a point to left and to the right of A. Use the graph to help and then record the new coordinates in the table of values.

<i>x</i>	<i>y</i>
2	1



8. A steel wire goes between the tops of two walls that are 15 meters apart. One wall is 8 meters high. The other is 5 meters high. What is the slope of the steel wire?



9. A ladder is leaning up against a wall of a building so that it reaches 10 m up the wall. The bottom of the ladder is 1.25 m from the base of the wall.

a) What is the slope of the ladder?

b) Has the ladder been placed according to the safety standards, which state that the ladder should have a slope of between 6.3 and 9.5 when it is placed up against a building?

## Answers

1) -1.25

2) 0.73

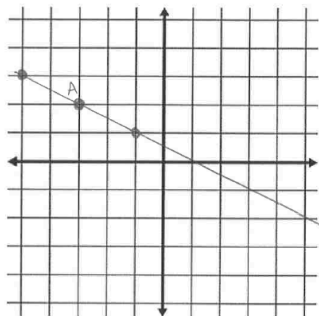
3)  $AB = \frac{2}{3}$   $CD = \frac{-3}{4}$   $EF = 0$   $GH = \text{undefined}$

4)  $EF = \frac{5}{6}$   $GH = \frac{-3}{7}$   $JK = \frac{3}{10}$

5)  $\frac{-3}{7}$

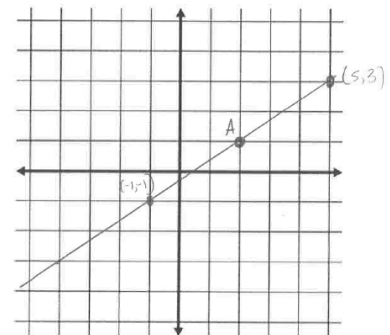
6)

x	y
-1	1
-3	2
-5	3



7)

x	y
-1	-1
2	1
5	3



8) 0.2

9) a) 8 b) yes