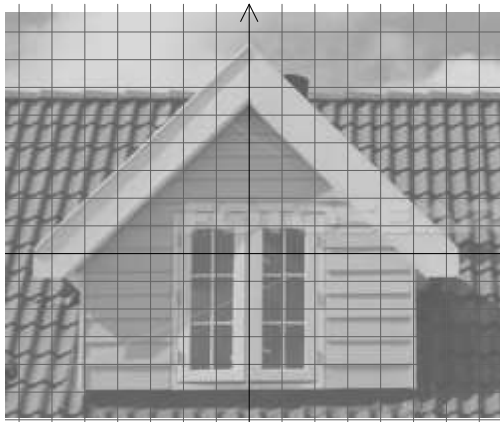


# FPC 10

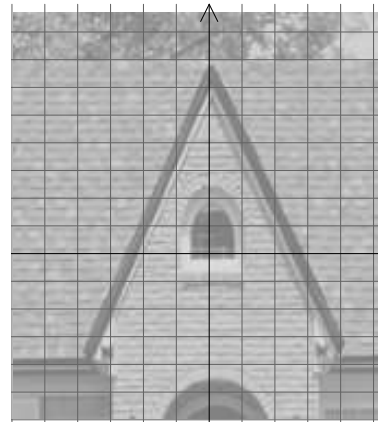
## 5.1 – Slope of a Line Segment

The \_\_\_\_\_ of a roof can be measured by finding its \_\_\_\_\_.

Numerical Value of Slope = \_\_\_\_\_ = \_\_\_\_\_ = \_\_\_\_\_ =



Roof A

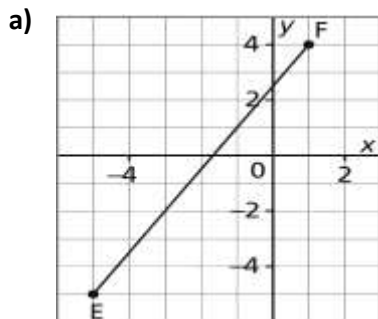


Roof B

Determine the **SLOPE** of each of the roofs shown above.

Which roof is **STEEPER**? Why?

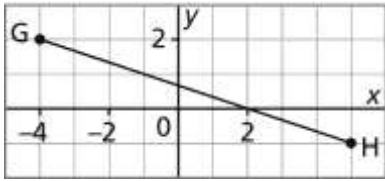
1. Determine the slope of each line segment given below.



i) Using **RISE** and **RUN**

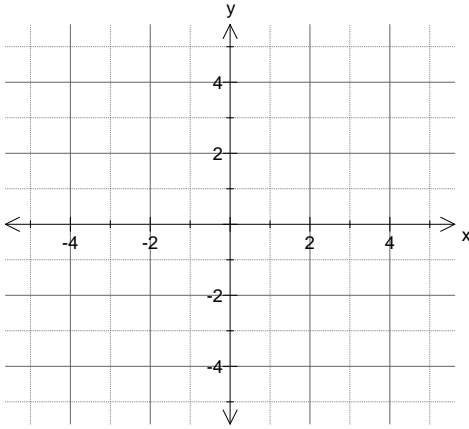
ii) Using the coordinates of the points **E** and **F**

b)

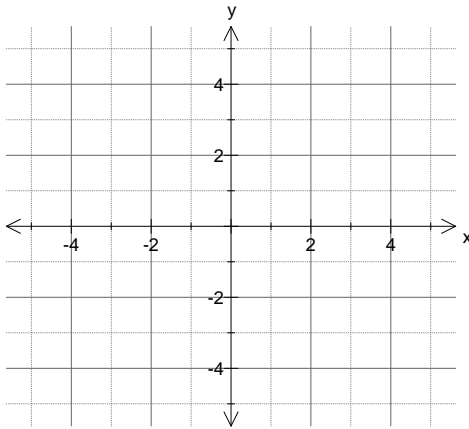


2. Draw a line segment with the given slope.

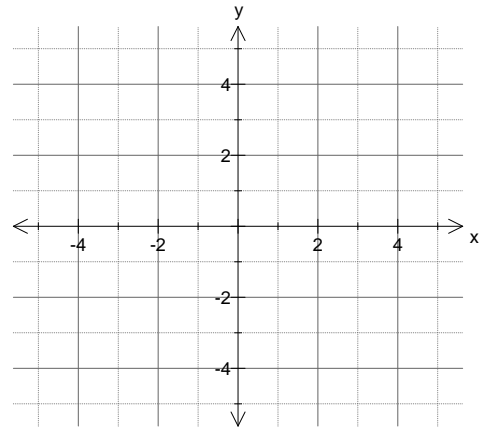
a)  $\frac{4}{9}$



b)  $\frac{8}{-3}$

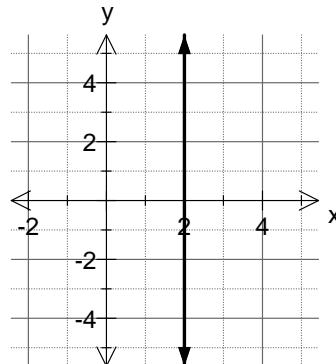
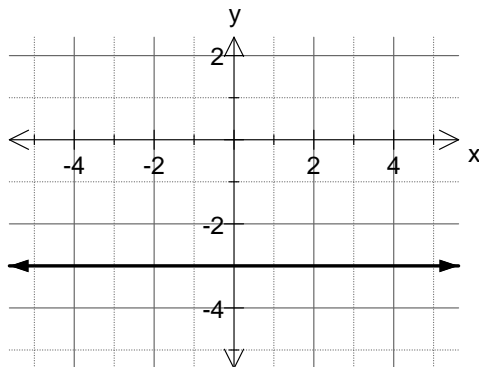


c)  $-3$



3. Determine the slope of the line that passes through the points: E(4, -5) and F(8, 6).

4. Determine the slopes of the line segments given below.



5. Tom has a part-time job. He recorded the hours he worked and his pay for 3 different days. Tom plotted this data on a grid.

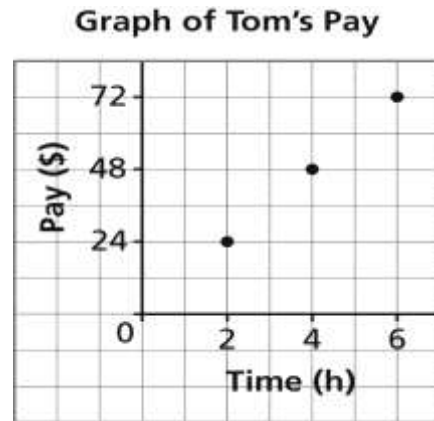
a) Draw a line through these points and find its slope?

b) What does the slope represent?

c) How can the answer to *part b* be used to determine:

i) How much Tom earned in  $3\frac{1}{2}$  hours?

ii) The time it took Tom to earn \$30?



6. A wheelchair ramp has a slope of  $\frac{2}{3}$ . If the height of the ramp is 5ft, what must be the horizontal length of the ramp?

7. A line with has a slope of  $-2$ . The line passes through the points  $P(-2, 6)$  and  $Q(1, m)$ . Determine the value of  $m$ .

# Real World Meaning of Slope

For each of the following, determine the meaning of the slope value: **Slope =** \_\_\_\_\_

