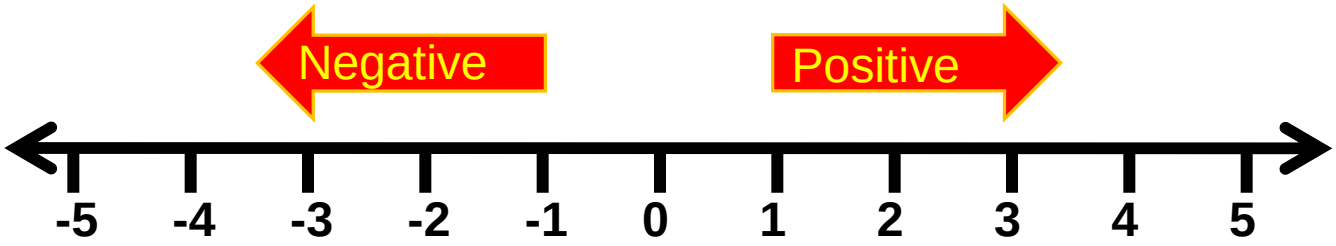
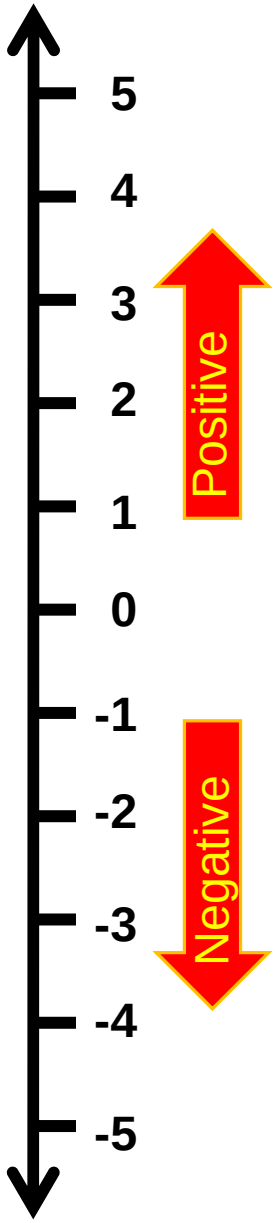
5.5

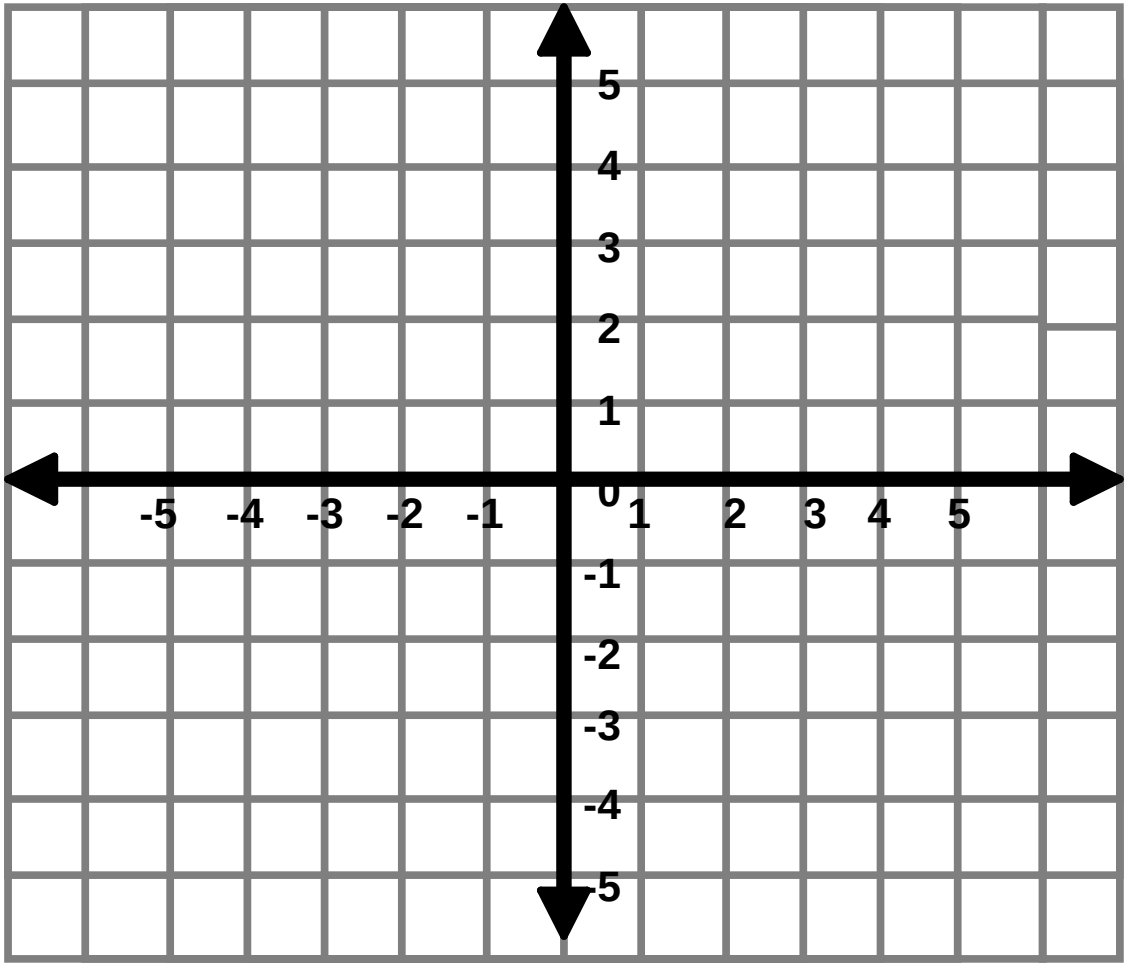
Activity



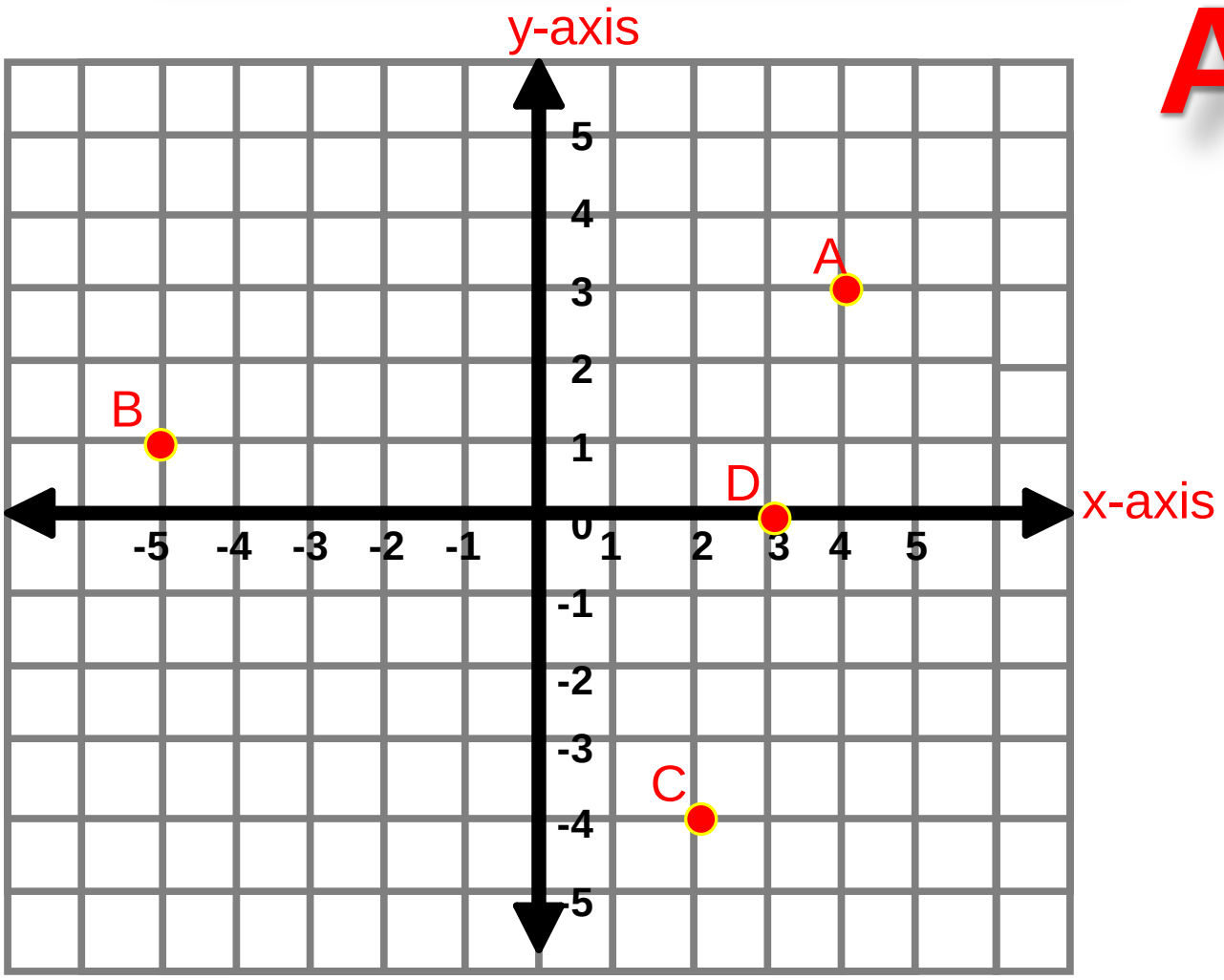
NUMBER LINES



COORDINATE PLANE

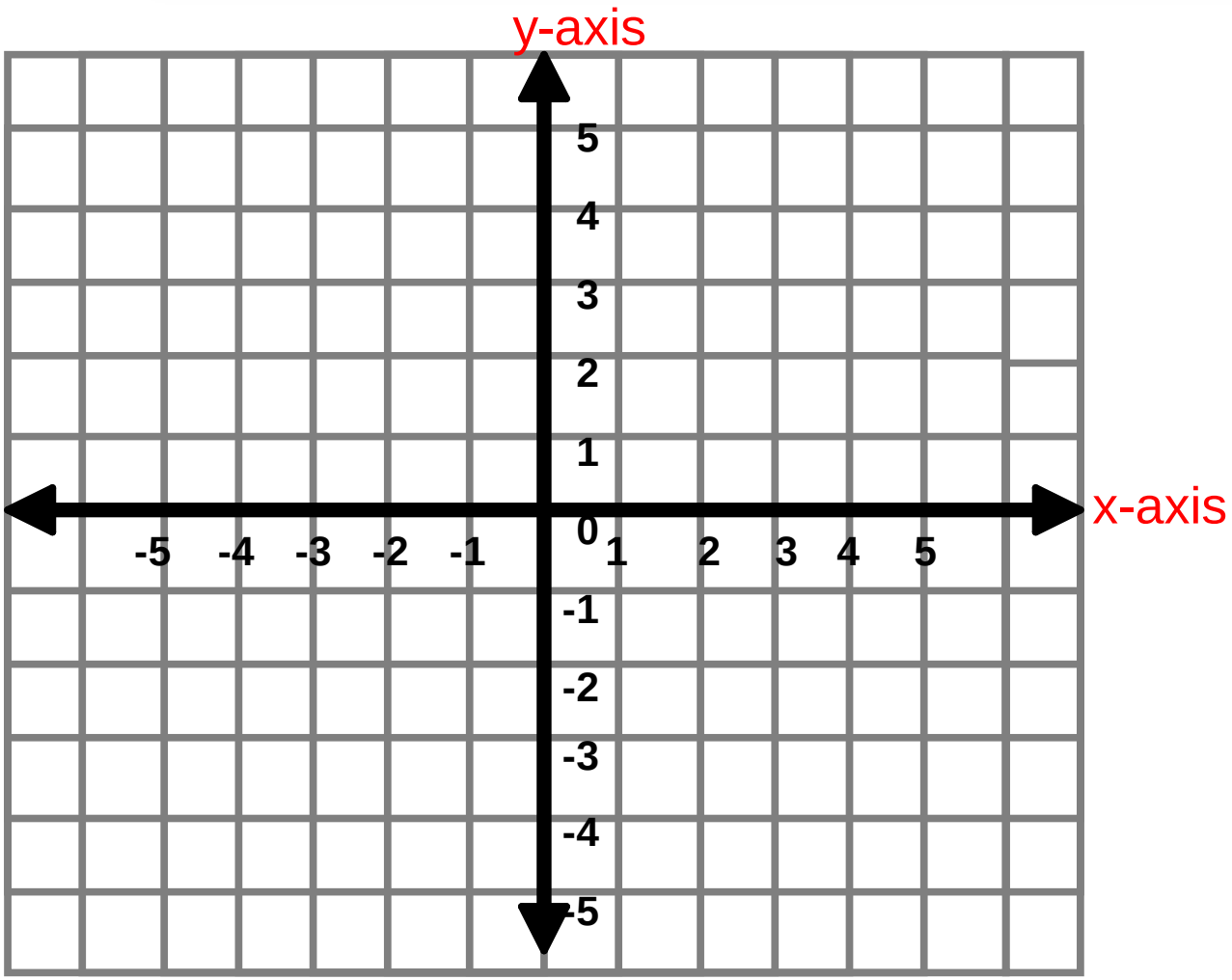


COORDINATES



A(,)

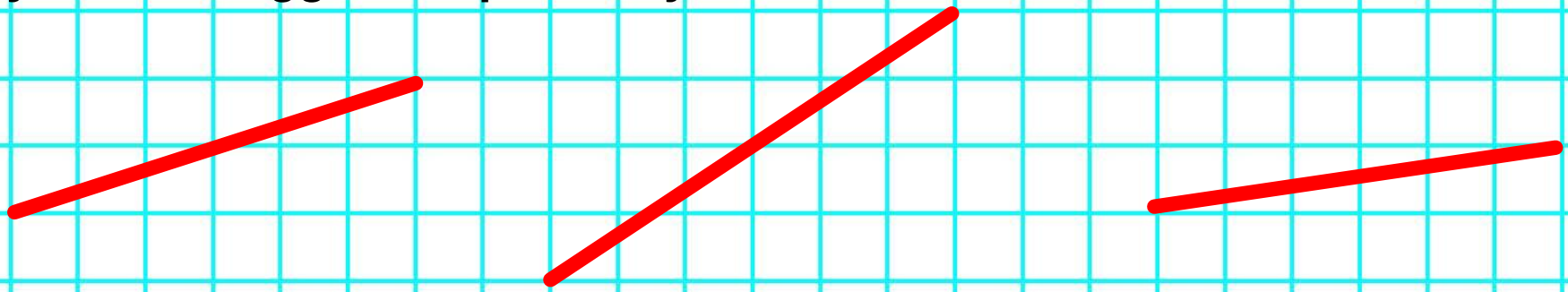
PLOTTING POINTS



A(5,2)
B(-3,-4)
C(-1,5)
D(3,-5)
E(4,6)
F(0,0)
G(4,0)
H(0,-3)

Introduction of Slope

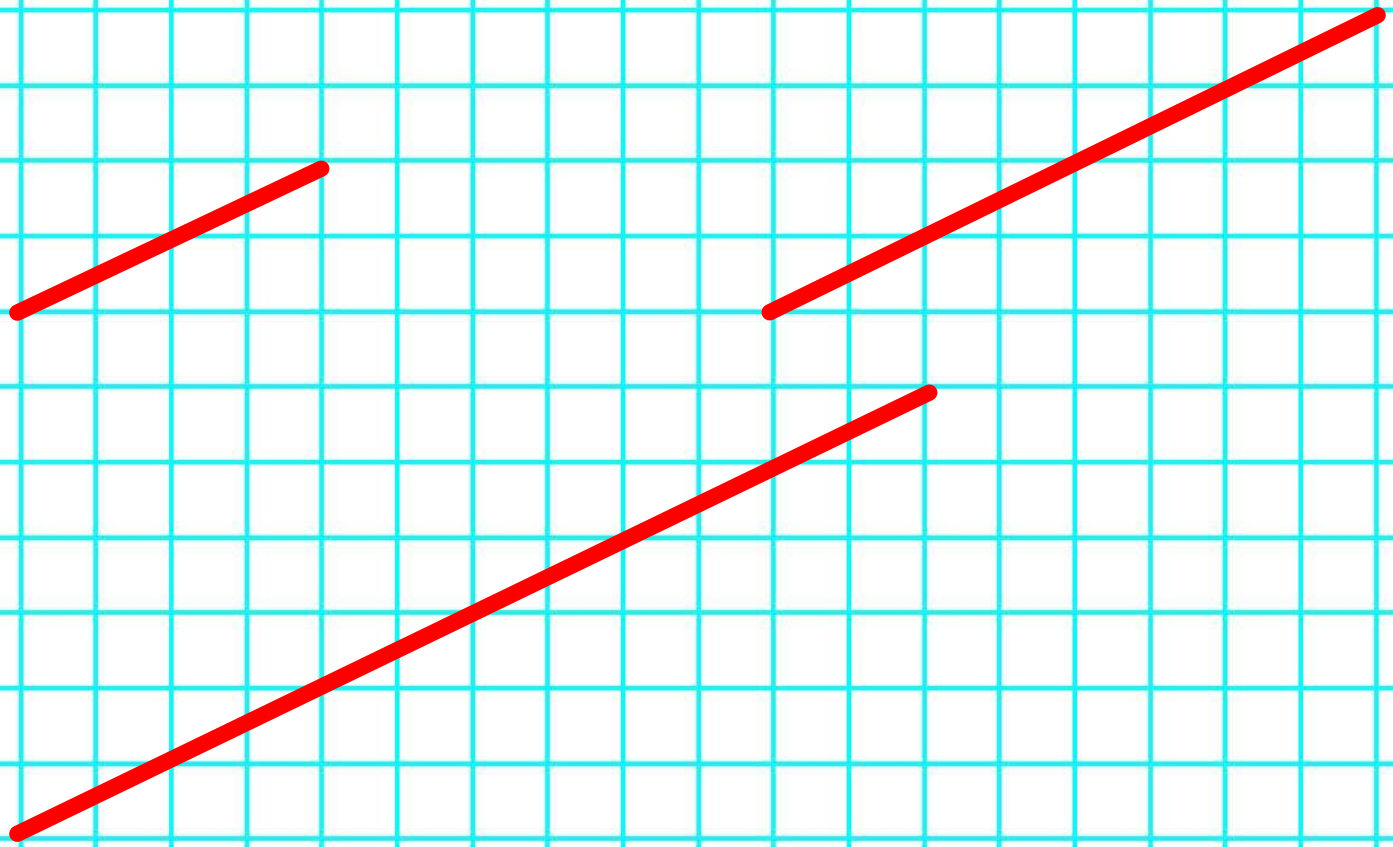
Look at the following line segments. Which of them would you say has the biggest slope? Why?



Without referring to actual length of the line segments, what would say is the same about them? Different? (Clue: Use the grid lines to help you describe this.)

Introduction of Slope

Which of these segment, if any, has the biggest slope? Why?



Slope

Slope is the ratio of the vertical change and the horizontal change.

Another name of slope is the _____ _____ _____

Slope = $\frac{\text{change in } y}{\text{change in } x}$

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

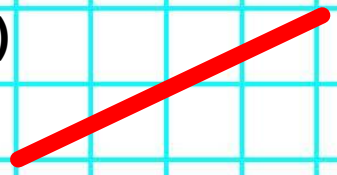
Slope = $\frac{y_2 - y_1}{x_2 - x_1}$

Practice

$$\text{Slope} = \frac{\text{Change of } y}{\text{Change of } x}$$

Find the ratio of slope of the following in simplest form.

1)



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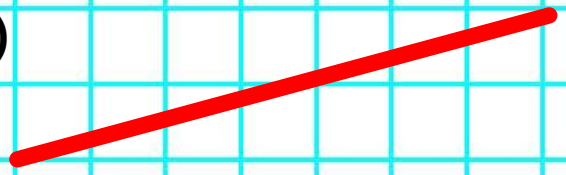
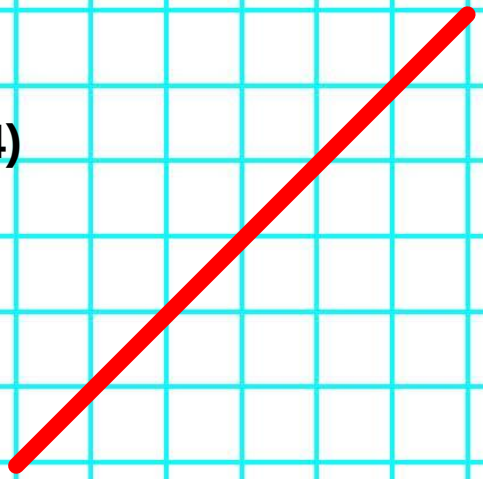
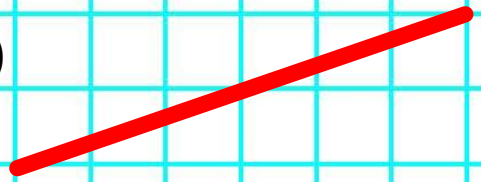
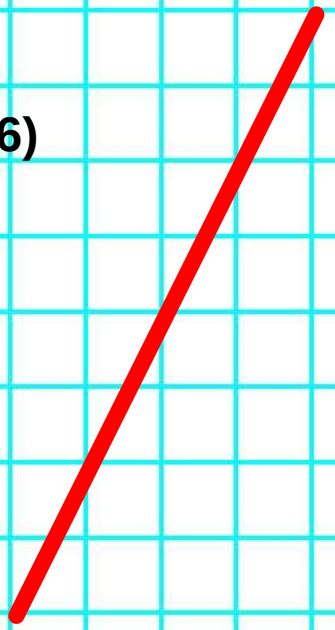


3)

4)



5)



6)