

BE-1A WEDNESDAY 2-7-07

① WRITE THE EQUATION FOR THE SLOPE OF A LINE.

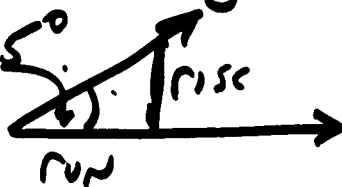
② FIND THE SLOPE OF THE LINE PASSING THROUGH:

Ⓐ $(-3, 2), (5, 5)$

Ⓑ $(-3, -4), (-2, -8)$

Ⓒ $(5, 5), (-3, 2)$

③ A 45 degree angle makes WHAT SLOPE?



④ NAME THE SIGN, + or -, OF EACH SLOPE



①

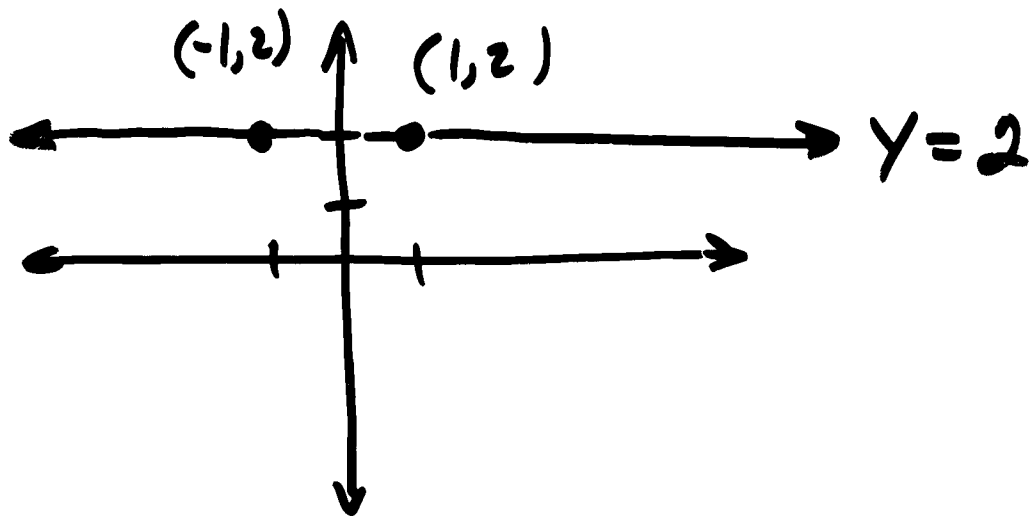
FIND THE SLOPE:

$(1, 2), (-1, 2)$

$(1, 2), (-1, 2)$

$$m = \frac{2-2}{-1-1} = \frac{0}{-2} = \boxed{0 = m}$$

A HORIZONTAL LINE HAS $m = 0$



②

FIND THE SLOPE:

$(1, -2), (1, 3)$

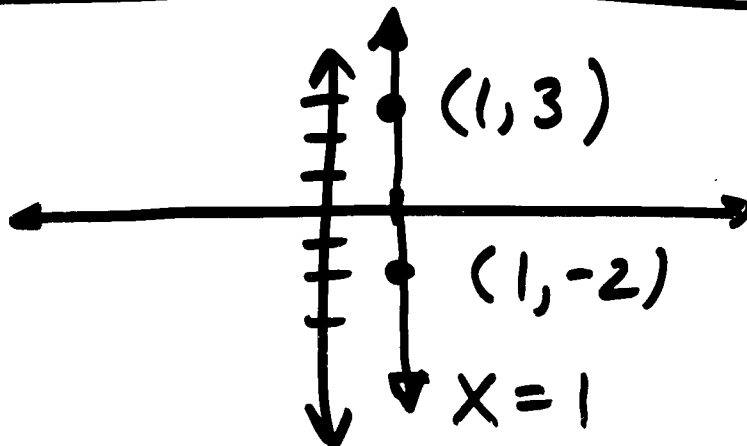
$(1, -2), (1, 3)$

$$m = \frac{3 - (-2)}{1 - 1} = \frac{5}{0}$$

CAN NEVER DIVIDE BY 0!

m is UNDEFINED

THE SLOPE OF VERTICAL LINES
is "UNDEFINED"



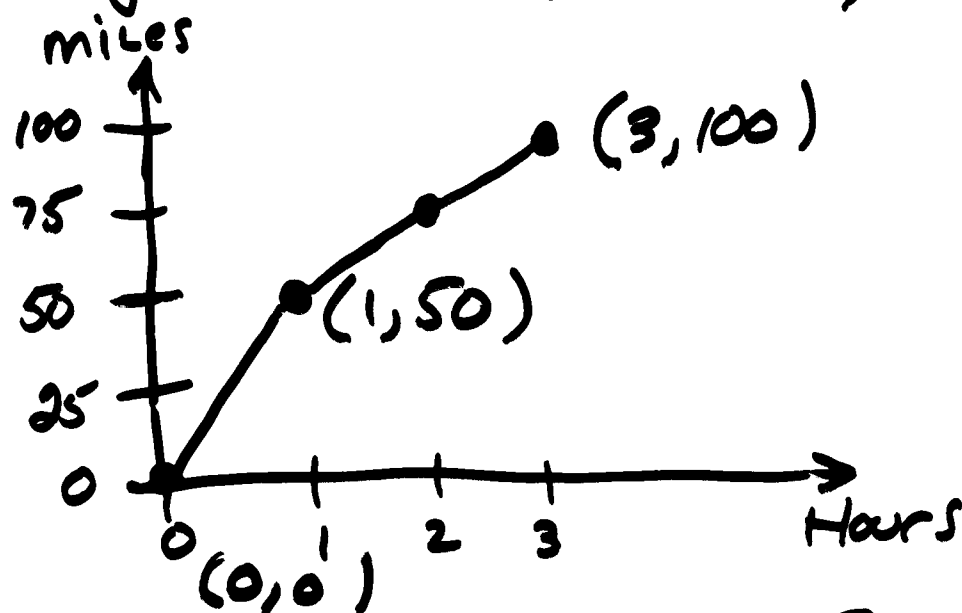
③

If the Rise ARE different units
run

the slope IS CALLED A RATE.

It SHOWS THE RATE OF CHANGE
OF SOMETHING. Positive $\Rightarrow \uparrow$

Ex) GRAPH OF (time, distance)



m for $(1,50), (3,100)$?

m for $(0,0), (1,50)$?

HW

Pg 260 # 16,

27, 19, 35, 36.