BE-1A THURSDAY 2-22-07

① NAME EACH SET OF NUMBERS AND DEFINE THEM USING SET NOTATION.

② $f(x) = 2x - 4$ $\quad g(x) = \frac{x}{2}$

ⓐ FIND $f(-3)$

ⓑ FIND $g(8)$

③ FIND EQL THROUGH $(-2, -5)$, $(2, 3)$

WITHOUT CALCULATING THE SLOPE, JUST BY LOOKING, IDENTIFY WHICH LINES THROUGH EACH PAIR OF POINTS IS h = HORIZONTAL
V = VERTICAL
d = DIAGONAL

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① (4, 6)(2, -3)

② (5, 3), (5, 8)

③ (7, 9), (-2, 9)

④ (8, -1), (0, 0)

⑤ (12, 4), (4, 12)

⑥ (9, 2), (9, 1)

WITHOUT CALCULATING THE SLOPE, JUST BY LOOKING, IDENTIFY WHICH LINES THROUGH EACH PAIR OF POINTS IS h = horizontal m = 0
V = VERTICAL m = UNDEFINED
d = diagonal

d ① (4, 6) (2, -3)

V ② (5, 3), (5, 8) zero UNDEFINED

h ③ (7, 9), (-2, 9) zero

d ④ (8, -1), (0, 0)

1 ⑤ (12, 4), (4, 12)

V ⑥ (9, 2), (9, 1) zero UNDEFINED

WHAT ARE THE EQUATIONS OF THE h, V lines?

Sometimes, you are is already partly finished

Ex 1 Pg 280 Write EOL for slope = 2, line is through (1, 5)

(x, y)

$m = 2$

$y = mx + b$

$5 = 2 \cdot 1 + b$

$5 = 2 + b$

$-2 \quad -2$

$3 = b$

$\therefore \boxed{y = 2x + 3}$

Practice: Pg. 283 # 1 to 10