

INTERMEDIATE ALGEBRA - ~~TEST~~ #1 REVIEW WKSH. ~~TEST~~

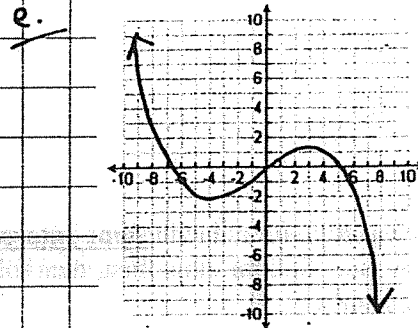
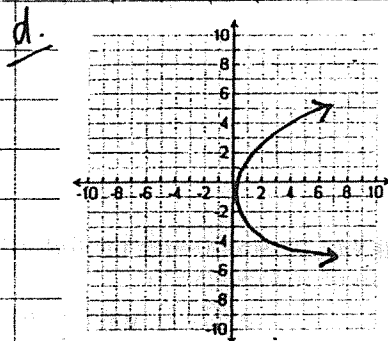
1. STATE WHETHER OR NOT THE RELATION IS A FUNCTION.

a. $\{(-4, 5), (3, -2), (-4, 7)\}$

b. $\{(\frac{3}{2}, \frac{1}{2}), (\frac{1}{3}, \frac{1}{4}), (-\frac{1}{5}, \frac{1}{4})\}$

c.

x	y
1	-11
1	10
2	-9
3	0

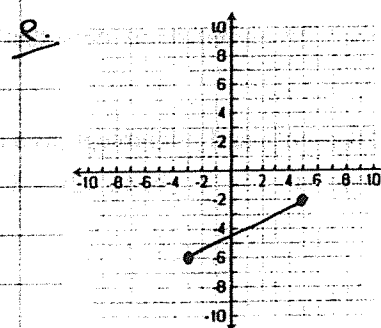
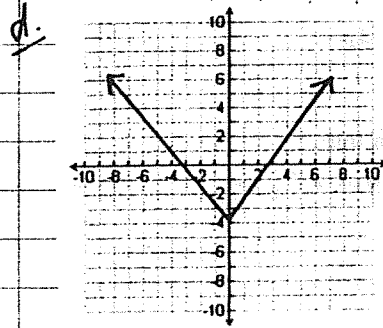
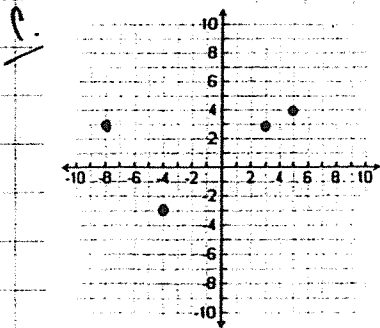


2. STATE THE DOMAIN AND RANGE OF EACH FUNCTION.

a. $\{(-5, 12), (0, -3), (6, 4)\}$

b.

x	y
5	2
12	2
3	7
4	8



DOMAIN:
RANGE:

DOMAIN:
RANGE:

DOMAIN:
RANGE:

3. FIND THE SLOPE OF THE LINE THROUGH EACH PAIR OF POINTS. LEAVE ALL ANSWERS AS REDUCED, IMPROPER FRACTIONS.

a. $(4, -2)$ AND $(-5, -1)$

b. $(3, 7)$ AND $(-5, 0)$

c. $(3, 6)$ AND $(-2, 6)$

d. $(0, 4)$ AND $(0, 0)$

4. Write the equation for a line in point-slope form that has the indicated slope and contains the given point.

a. slope = -4 and (-5, 2)

b. slope = $\frac{1}{3}$ and (8, -10)

5. Write the equation for a line in slope-intercept form that has the indicated slope and contains the given point:

a. slope = $-\frac{1}{4}$ and (4, -8)

b. slope = 5 and (-9, 4)

6. Write the equation for a line in slope-intercept form that passes through the following points:

(Hint: you must find the slope first, then follow the same process in #5).

a. (-1, -4) and (-2, 5)

b. (2, 3) and (-4, 6)

7. Write the equation for a line with the following information:

a. horizontal line that contains (8, -10).

b. vertical line that contains (11, -13).

c. line with a slope of zero that contains (-12, 14).

d. line with an undefined slope that contains (-6, 4).

8. Find the slope and y-intercept (as a point) of each line.

a. $y = 3x - 4$

b. $4x - 2y = 8$

c. $f(x) = \frac{1}{2}x - 2$

d. $y = 4$

e. $x = 4$

9. Find the x-intercept and y-intercept of each linear equation (as points).

a. $3x - 4y = 12$

b. $2x + 10 = 5y$

* See also Ch. Review (pg. 208) # 27-29, 35-38, 91