

Review 6 weeks Test:

① Graph the number line for each interval notation

① $(-\infty, 1]$ or $[3, 5)$ ② $(-\infty, -3)$ or $[2, +\infty)$

Irrational, Rational, Integer, Whole, Natural

State all the subsets of Reals that each number belongs to.

③ $\sqrt{3}$ ④ -6 ⑤ 2

simplify: ⑥ $3a - 4b + 2 - 6 + 5a$ ⑦ $4(2x - y) - 3(x - y)$

⑧ $4 - 3(x + 1) + 5$

Evaluate when $a = -2$ and $b = 5$

⑨ $\frac{4a + b + 9}{3}$ ⑩ $2b - a + a^2$

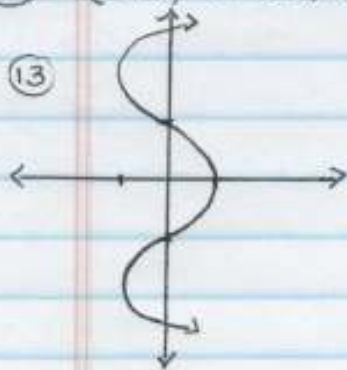
yes or No? Do the following represent a function?

⑪ $\{(2, -1), (4, 3), (6, -1), (8, 3)\}$

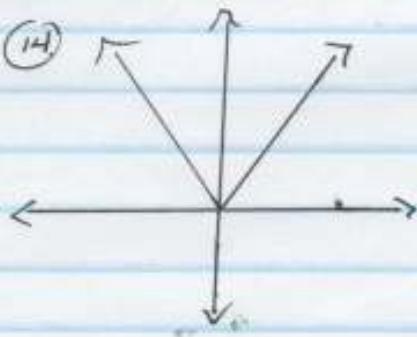
⑫



⑬



⑭

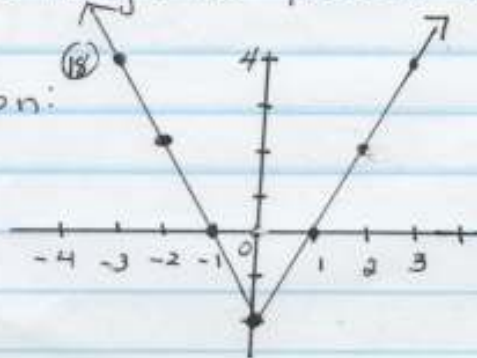


⑮ State the Domain and Range for problem #11.

Find $f(3)$ for each function:

⑯ $f(x) = 4x - 5$

⑰ $f(x) = 2 - x^2$



Solve: (19) $4(x-2) + 1 = 17$

(20) $3 - (2x+1) = 5-x$

(21) $2(4+x) - x = x+5$

(22) $\frac{x+3}{5} = \frac{4}{2}$

(23) Emma's cell phone plan charges her a \$70 fixed fee plus \$0.16 per minute over her allowed 1000 minutes. If her bill was \$104, how many extra minutes did she use?

(24) If 80% of the 600 seniors take math at Bowie, how many seniors are in math?

(25) Find the rate of change.

(26) Does #25 represent a linear function?

x	f(x)
-1	22
2	17
5	12
8	7

(27) Write the equation of the line passing through $(2, -4)$ and has a slope of $\frac{1}{2}$

(28) Write the equation of the line passing through $(2, -1)$ and $(0, 3)$

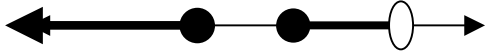
(29) Write the equation of the line a) parallel and b) perpendicular to $2y = 4x + 5$ and passing through $(-6, 4)$

(30) Graph using the intercepts: $2x - 3y = 12$

(31) Graph $y \geq -\frac{2}{3}x + 2$

Study Review #3

IV



3

1



3

2

h e IV

8 7 6 2 6

4 h h 4

9 6 7 8

6 6 h 7

h h 2

6 7 6 6 6 6

6 3

