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2	6	+5	2	4 1	2	3 7 +2	2	8	
3	13	/	3	8	V	3	519	3	27

4) State the linear equation to question #3.

exponential

y = mx + b y = 2x - 1

4

y-intercept (0,-1)

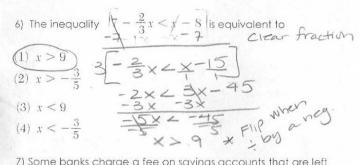
* Can use Glue on page 55 4, 8 42 Linear Reg 5) Which domain would be the most appropriate set to use for a function that predicts the number of household online-devices in terms of the number of people in the household?

Wintegers no neg. devices

(21 irrational numbers

(3) whole numbers
$$\longrightarrow 0,1,2,\ldots$$

Atrational numbers -> Fraction



7) Some banks charge a fee on savings accounts that are left inactive for an extended period of time. The equation $y = 5000(0.98)^x$ represents the value, y, of one account that was left inactive for a period of x years. What is the y-intercept of this equation and what does it represent?

(1) 0.98, the percent of money in the account initially
(2) 0.98, the percent of money in the account after x years
(3) 5000, the amount of money in the account initially
(4) 5000, the amount of money in the account after x years

8) Write the equation in vertex form and state the vertex of the equation: $x^2 + 6x - 7 = 0$ $(x+3)^2 - 16 = 0$ vertex form

Donus:
$$(x+3)^2-16=0$$

Zeros: $\sqrt{(x+3)^2-16}=0$
 $+16+16$
 $\sqrt{(x+3)^2-16}=0$
 $+16+16$
 $\sqrt{(x+3)^2-16}=0$
 $-3+4=1$

9) Ahad is given a rectangular piece of paper. If the length of Ahad's piece of paper is represented by 2x - 6 and the width is represented by 3x + 5, then the paper has a total area represented by (2x - 6)(3x + 5) or $3x(6x^2 + 8x - 3)$ (2x + 6)(3x + 5)(3x + 5)

10) If the pattern below continues, what formula will represent the number of squares in this sequence? How many squares will be in the 9^{th} design?

11) Solve the equation $4x^2 - 12x = 7$ algebraically for x.