

9

a) \mathbb{R}

b) \mathbb{R}

c) yes

11

a) parallel

b)

c)

10

a) \mathbb{R}

b) $y \leq 4$

c) yes

12

a) $-4 \leq x \leq 1$

b) $-2 \leq y \leq 2$

c) NO

13

a) \mathbb{R}

b) $y = 3$

c) yes

14

a) $-4 \leq x \leq 3$

b) $-3 \leq y \leq 4$

c) yes

15

a) -29

b) 3

c) $-x^2 - 4x + 3$

d) -16

16

a) $x = 3$

b) \mathbb{R}

c) ND

17

a) \mathbb{R}

b) \mathbb{R}

c) yes

18

a) \mathbb{R}

b) $y \geq -1$

c) yes

19

a) $y = 50 - 5x$

b) 7 days

c)

20

a) $y = 30,000 - 2000x$

b) 20,000 ft

c)

Linear reg. problems

4) $y = .43x + 1.90$

≈ 14.8 yrs.

5) $y = -7.165x + 81.35$

RELATIONS, FUNCTIONS, DOMAIN & RANGE

First, let's review some basic information:

- Domain is the set of all _____
- Range is the set of all _____
- Given a continuous graph (connected lines or curves):
 - Scan the graph _____ for domain!
 - Scan the graph _____ for range!
- To be a function, a relation must not repeat any _____.
- When given a graph, use the _____ to determine if it's a function.

Record your answers to the task cards below.

1	a) $\{-5, -3, 0, 2\}$ b) $\{-1, 0, 2, 4\}$ c) Yes	2	a) $(4, 0)$ b) $(0, -3)$ c) _____
3	a) $y = -3x + 1$ b) c) _____	4	a) $\{-3, 0, 6\}$ b) $\{-2, 1, 2, 8\}$ c) NO
5	a) $2x - 7 = 1$ b) $x - 8y = -12$ c) _____	6	a) $\{-2, 0, 2\}$ b) $\{1, 5\}$ c) Yes
7	a) $\{-4, -2, 0, 4\}$ b) $\{-1, 0, 1, 4\}$ c) Yes	8	a) $y = -\frac{1}{2}x + 5$ b) c) _____