

Algebra I
pg 48

1) domain, range

3)

4)

5)

6)

7)

8)

9) Domain and Range are graphed backwards

10) $D = \{1,2,3,4,5,6\}$
 $R = \{1,2,3,4,5,6\}$
 $y = x$

11) $D = \{1,2,3,4\}$
 $R = \{0,2,4,6\}$
 $y = 2x - 2$

12) $D = \{0,1,2,3\}$
 $R = \{1, \frac{3}{2}, 2, \frac{5}{2}\}$
 $y = \frac{1}{2}x + 1$

13) C

15)

16)

19) a: increases
b: yes, because the y-values go from 26-30.

21) A
22) D

12) $0 \rightarrow 1$
 $1 \rightarrow 1.5$
 $\div 2, +1$ $2 \rightarrow 2$
 $3 \rightarrow 2.5$
 $4 \rightarrow 3$

$y = \frac{x}{2} + 1, y = \frac{1}{2}x + 1$

13) ~~$y = \frac{1}{2}x + \frac{1}{2}$~~ ~~$y = x + \frac{1}{2}$~~ $y = \frac{3}{2}x + \frac{1}{2}$
 ~~$0 \rightarrow \frac{1}{2}$~~ ~~$1 \rightarrow 1$~~ $0 \rightarrow \frac{1}{2}$
 ~~$1 \rightarrow 2$~~ $1 \rightarrow 2$

~~$y = 2x + \frac{1}{2}$~~
 ~~$0 \rightarrow \frac{1}{2}$~~ $1 \rightarrow 2.5$

15)

21)

$V = B h$
↑
area of base

$A = \pi r^2$
 $A = 3.14(1)^2$

$V = 3.14(8)$
 $= 8\pi \text{ in}^3$

22)

pg 57
1-19 all

$V = 10 \cdot 10 \cdot 10$
 $= 1000 \text{ in}^3$

1.503 $\frac{1000 \text{ in}^3}{\text{in}^3}$
 1500 oz