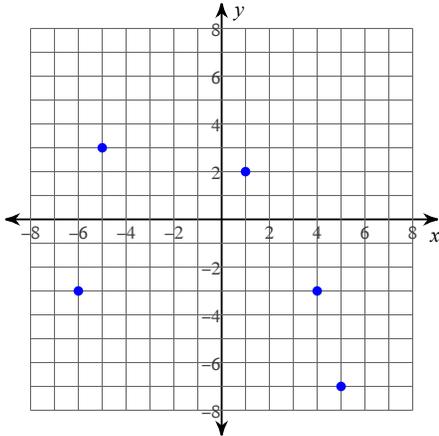


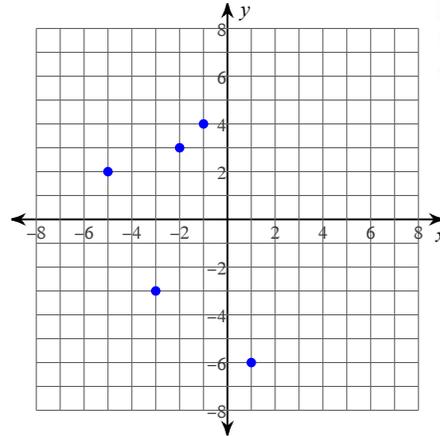
Summer Math Packet Part 2

8.15 - Each graph represents a relation. Determine the domain/range and if the relation is a function.

1)



2)



Each table represents a relation. Determine the domain/range and if the relation is a function.

3)

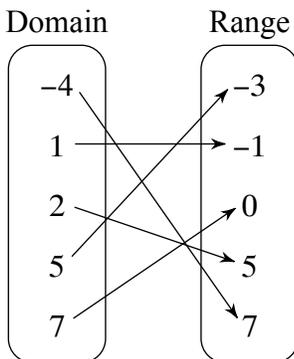
x	y
-4	4
-4	-2
2	2
3	-5
4	5

4)

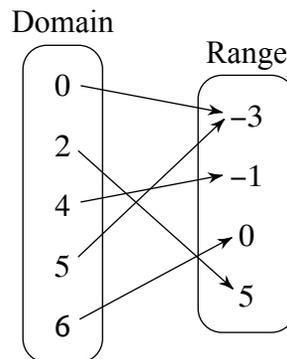
x	y
-6	7
-1	-5
0	6
4	-5
4	5

Each mapping diagram represents a relation. Determine the domain/range and if the relation is a function.

5)



6)



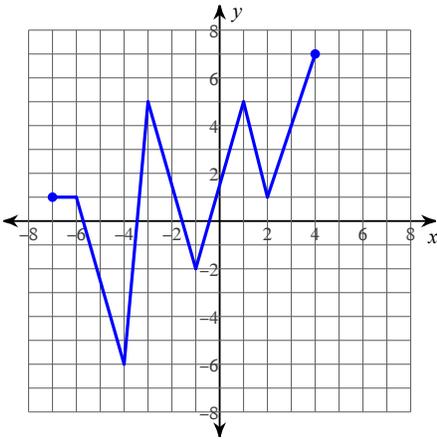
Each set of ordered pairs represents a relation. Determine the domain/range and if the relation is a function.

7) $\{(-7, 1), (-6, 6), (-6, 7), (-5, -5), (4, 2)\}$

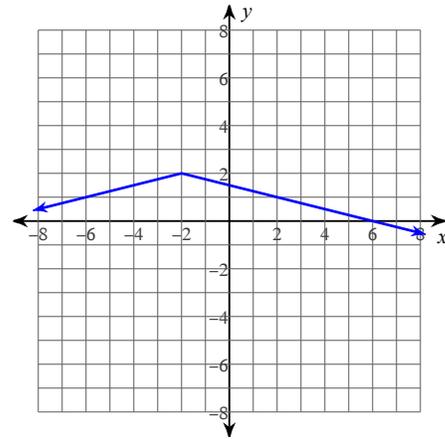
8) $\{(-1, 2), (0, 6), (2, 4), (3, 3), (5, -3)\}$

Each graph represents a relation. Determine if the relation is a function. Then find the domain and range.

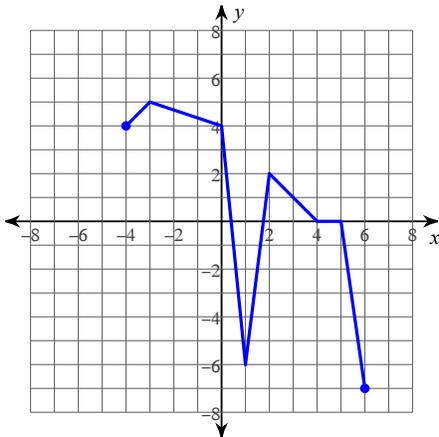
9)



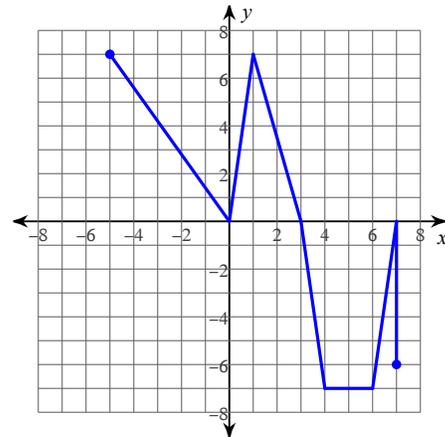
10)



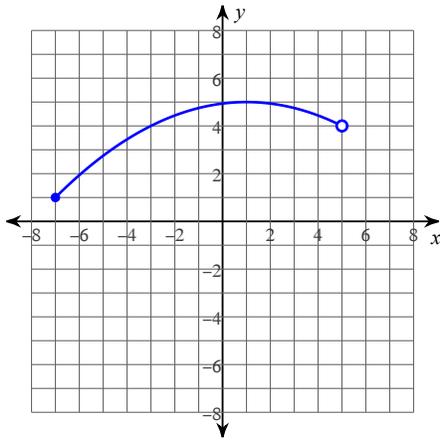
11)



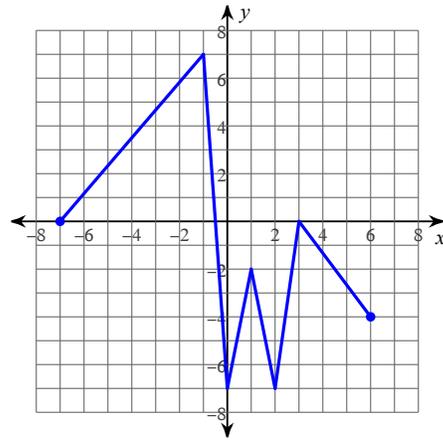
12)



13)



14)

**8.17 - Solve each equation.**

15) $10 = k + 19$

16) $\frac{x}{19} = -\frac{1}{19}$



17) $5 - 7r + 4 = 9$

18) $1 = 4m - 5 - 6m$

19) $1 - 8x - 5x = 1$

20) $-8 = 5n - 4n$

21) $89 = -(-7m - 1) + 4m$

22) $-94 = -5(6 - 2a) - 4$



23) $7(6m - 4) = 308$

24) $133 = -7(m - 7) - 5m$

25) $n - 40 = 7n - 7(5 + n)$

26) $8 + 4m = -6(5m - 8) - 6m$

$$27) 7(3b + 3) = 2b + 21$$

$$28) -19 - 2a = -7(a + 2)$$

$$29) -2x - 4(2 + 3x) = 28 - 8x$$

$$30) -3(5x - 6) + 3x = 26 - 4x$$

8.17 - Solve each proportion.

$$31) \frac{10}{x} = \frac{3}{7}$$

$$32) \frac{7}{5} = \frac{b}{9}$$



$$33) \frac{6}{2} = \frac{a}{3}$$

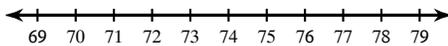
$$34) \frac{4}{b} = \frac{8}{3}$$

$$35) \frac{10}{6} = \frac{x}{3}$$

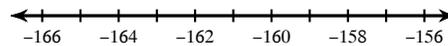
$$36) \frac{n}{3} = \frac{10}{8}$$

8.18 - Solve each inequality and graph its solution.

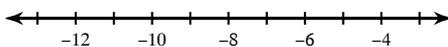
$$37) \frac{k}{5} \leq 15$$



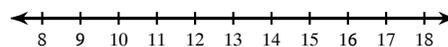
$$38) -8 > \frac{n}{20}$$



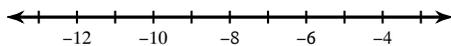
$$39) -1 \geq \frac{-8 + m}{14}$$



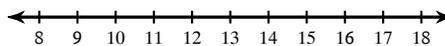
$$40) -2 \geq \frac{n}{15} - 3$$



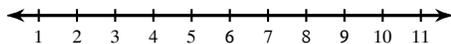
$$41) -1 < \frac{-8 + k}{14}$$



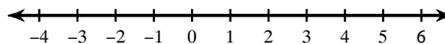
$$42) -5 + \frac{x}{15} < -4$$



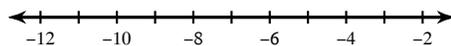
$$43) a + 4 - 3a < -8$$



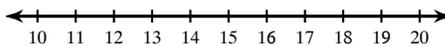
$$44) -2 > 4n - 3n$$



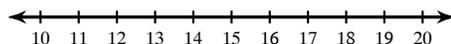
$$45) 13 \leq p - 7 - 6p$$



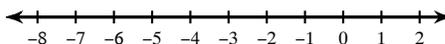
$$46) -3x + 3x \geq 4$$



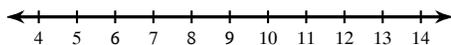
$$47) -6m \leq -4m - 2(m - 2)$$



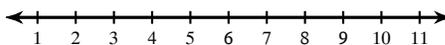
$$48) 34 + 7v \geq -4(4v + 3)$$



$$49) x - 4(x + 3) \geq -7x + 16$$



$$50) -4(v + 5) > -8 - 6v$$



Answers to Summer Math Packet Part 2 (ID: 1)

- 1) Domain: $\{-6, -5, 1, 4, 5\}$
 Range: $\{-7, -3, 2, 3\}$
 The relation is a function.
- 2) Domain: $\{-5, -3, -2, -1, 1\}$
 Range: $\{-6, -3, 2, 3, 4\}$
 The relation is a function.
- 3) Domain: $\{-4, 2, 3, 4\}$
 Range: $\{-5, -2, 2, 4, 5\}$
 The relation is not a function.
- 4) Domain: $\{-6, -1, 0, 4\}$
 Range: $\{-5, 5, 6, 7\}$
 The relation is not a function.
- 5) Domain: $\{-4, 1, 2, 5, 7\}$
 Range: $\{-3, -1, 0, 5, 7\}$
 The relation is a function.
- 6) Domain: $\{0, 2, 4, 5, 6\}$
 Range: $\{-3, -1, 0, 5\}$
 The relation is a function.
- 7) Domain: $\{-7, -6, -5, 4\}$
 Range: $\{-5, 1, 2, 6, 7\}$
 The relation is not a function.
- 8) Domain: $\{-1, 0, 2, 3, 5\}$
 Range: $\{-3, 2, 3, 4, 6\}$
 The relation is a function.
- 9) The relation is a function.
 Domain: $-7 \leq x \leq 4$
 Range: $-6 \leq y \leq 7$
- 10) The relation is a function.
 Domain: All real numbers
 Range: $y \leq 2$
- 11) The relation is a function.
 Domain: $-4 \leq x \leq 6$
 Range: $-7 \leq y \leq 5$
- 12) The relation is not a function.
 Domain: $-5 \leq x \leq 7$
 Range: $-7 \leq y \leq 7$
- 13) The relation is a function.
 Domain: $-7 \leq x < 5$
 Range: $1 \leq y \leq 5$
- 14) The relation is a function.
 Domain: $-7 \leq x \leq 6$
 Range: $-7 \leq y \leq 7$
- 15) $\{-9\}$
- 16) $\{-1\}$

- 17) $\{0\}$
- 18) $\{-3\}$
- 19) $\{0\}$
- 20) $\{-8\}$
- 21) $\{8\}$
- 22) $\{-6\}$
- 23) $\{8\}$
- 24) $\{-7\}$
- 25) $\{5\}$
- 26) $\{1\}$
- 27) $\{0\}$
- 28) $\{1\}$
- 29) $\{-6\}$
- 30) $\{-1\}$
- 31) $\{23.33\}$
- 32) $\{12.6\}$
- 33) $\{9\}$
- 34) $\{1.5\}$
- 35) $\{5\}$
- 36) $\{3.75\}$
- 37) $k \leq 75$:
- 38) $n < -160$:
- 39) $m \leq -6$:
- 40) $n \leq 15$:
- 41) $k > -6$:
- 42) $x < 15$:
- 43) $a > 6$:
- 44) $n < -2$:
- 45) $p \leq -4$:
- 46) No solution. :
- 47) $\{ \text{All real numbers.} \}$:
- 48) $v \geq -2$:
- 49) $x \geq 7$:
- 50) $v > 6$: