Kuta Software - Infinite Algebra 2 Name_____

Evaluating Functions

Date_____ Period____

Evaluate each function.

1) $h(t) = |t + 2| + 3$; Find $h(6)$

2) $g(a) = 3^{3a-2}$; Find $g(1)$

3) $w(t) = -2t + 1$; Find $w(-7)$

4) $g(x) = 3x - 3$; Find $g(-6)$

5) $h(n) = -2n^2 + 4$; Find $h(4)$

6) $h(t) = -2 \cdot 5^{-t-1}$; Find $h(-2)$

7) $f(x) = x^2 - 3x$; Find $f(-8)$

8) $p(a) = -4^{3a}$; Find $p(-1)$

9) $p(t) = 4t - 5$; Find $p(t - 2)$

10) $g(a) = 4a$; Find $g(2a)$

11) $w(n) = 4n + 2$; Find $w(3n)$

12) $w(a) = a + 3$; Find $w(a + 4)$

13) $h(x) = 4x - 2$; Find $h(x + 2)$

14) $k(a) = -4^{3a+2}$; Find $k(a - 2)$

15) $g(n) = n^3 - 5n^2$; Find $g(-4n)$

16) $f(n) = n^2 - 2n$; Find $f(n^2)$

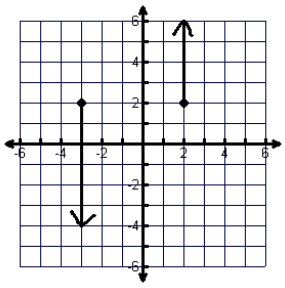
17) $p(a) = a^3 - 5$; Find $p(x - 4)$

18) $h(t) = 2 \cdot 3^{t+3}$; Find $h(4 + t)$

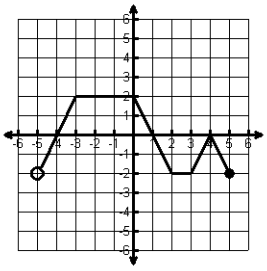
Domain and Range Worksheet #1 **Name:** _____

State the domain and range for each graph and then tell if the graph is a function (write yes or no).
If the graph is a function, state whether it is discrete, continuous or neither.

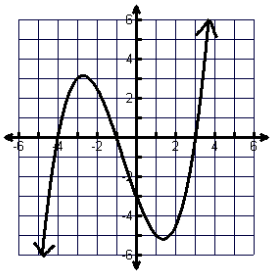
1) Domain_____
Range_____
Function?_____



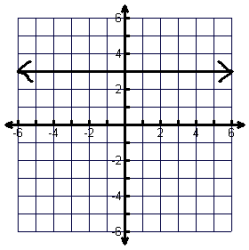
2) Domain_____
Range_____
Function?_____



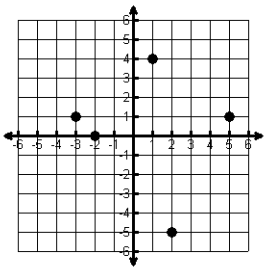
3) Domain_____
Range_____
Function?_____



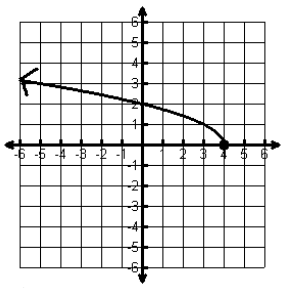
4) Domain_____
Range_____
Function?_____



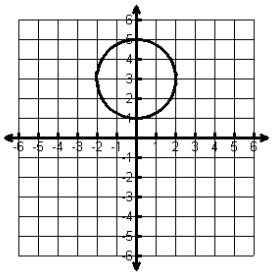
5) Domain_____
Range_____
Function?_____



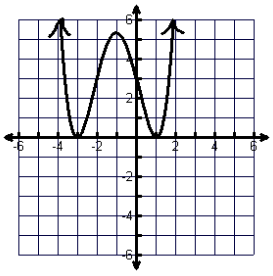
6) Domain_____
Range_____
Function?_____



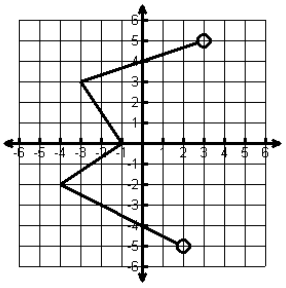
7) Domain_____
Range_____
Function?_____



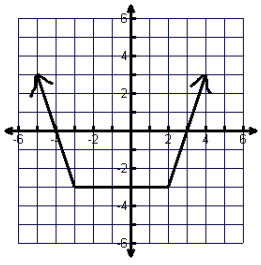
8) Domain_____
Range_____
Function?_____



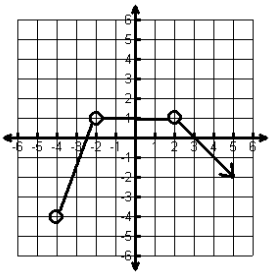
9) Domain_____
Range_____
Function?_____



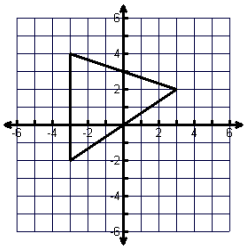
10) Domain_____
Range_____
Function?_____



11) Domain_____
Range_____
Function?_____



12) Domain_____
Range_____
Function?_____

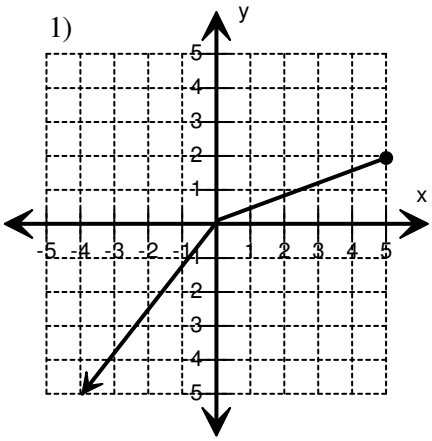


Name: _____ Score: _____

Domain and Range

Find the Domain and Range for each graph.

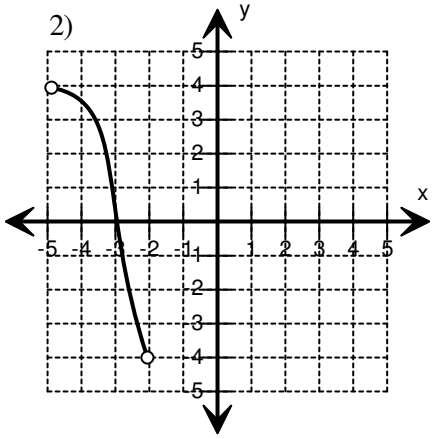
1)



Domain : _____

Range : _____

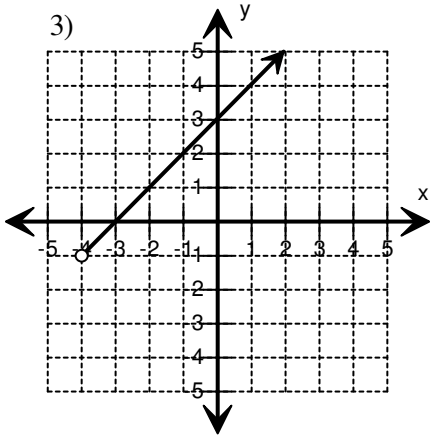
2)



Domain : _____

Range : _____

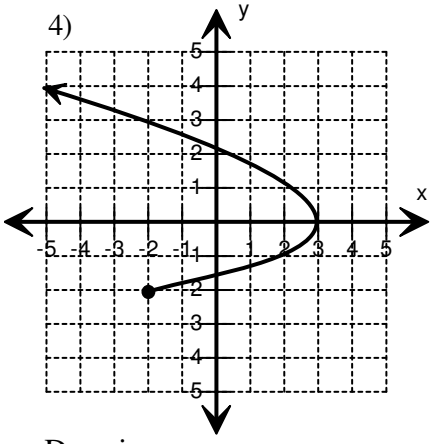
3)



Domain : _____

Range : _____

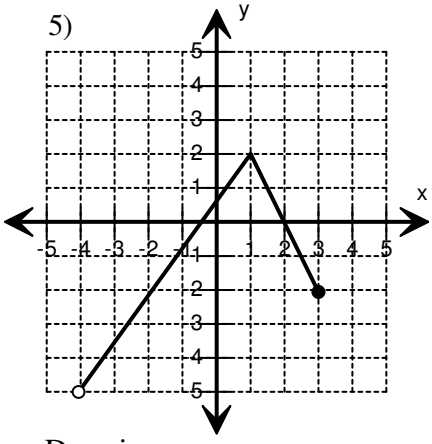
4)



Domain : _____

Range : _____

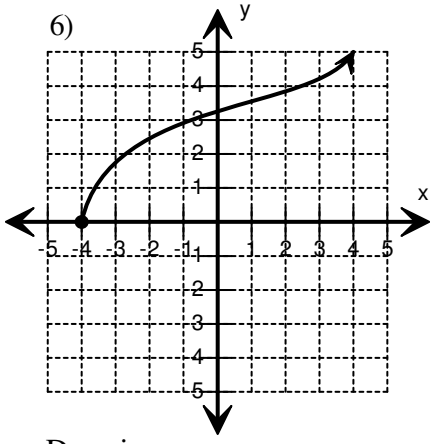
5)



Domain : _____

Range : _____

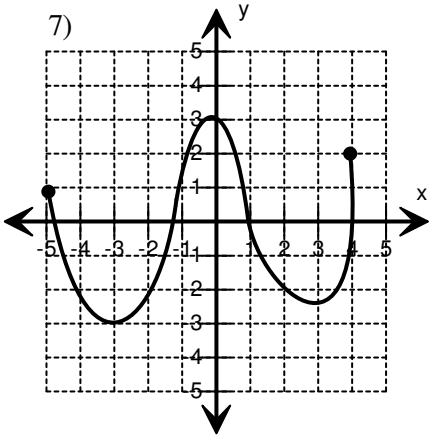
6)



Domain : _____

Range : _____

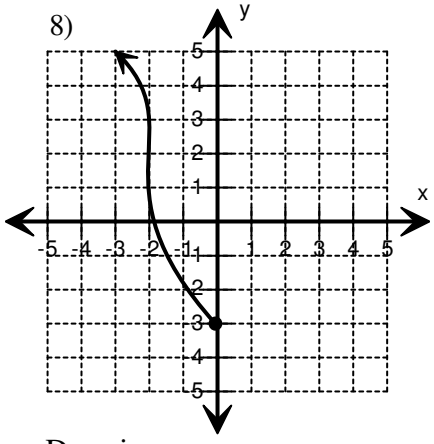
7)



Domain : _____

Range : _____

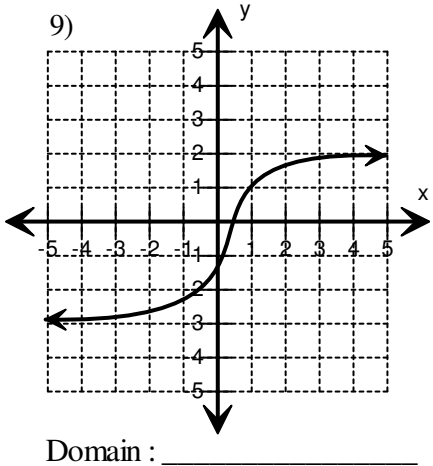
8)



Domain : _____

Range : _____

9)



Domain : _____

Range : _____

Kuta Software - Infinite Algebra 2 Name_____

Evaluating Functions

Date_____ Period____

Evaluate each function.

1) $h(t) = |t + 2| + 3$; Find $h(6)$

11

2) $g(a) = 3^{3a-2}$; Find $g(1)$

3

3) $w(t) = -2t + 1$; Find $w(-7)$

15

4) $g(x) = 3x - 3$; Find $g(-6)$

-21

5) $h(n) = -2n^2 + 4$; Find $h(4)$

-28

6) $h(t) = -2 \cdot 5^{-t-1}$; Find $h(-2)$

-10

7) $f(x) = x^2 - 3x$; Find $f(-8)$

88

8) $p(a) = -4^{3a}$; Find $p(-1)$

$-\frac{1}{64}$

9) $p(t) = 4t - 5$; Find $p(t - 2)$

$4t - 13$

10) $g(a) = 4a$; Find $g(2a)$

$8a$

11) $w(n) = 4n + 2$; Find $w(3n)$

$12n + 2$

12) $w(a) = a + 3$; Find $w(a + 4)$

$a + 7$

13) $h(x) = 4x - 2$; Find $h(x + 2)$

$4x + 6$

14) $k(a) = -4^{3a+2}$; Find $k(a - 2)$

-4^{3a-4}

15) $g(n) = n^3 - 5n^2$; Find $g(-4n)$

$-64n^3 - 80n^2$

16) $f(n) = n^2 - 2n$; Find $f(n^2)$

$n^4 - 2n^2$

17) $p(a) = a^3 - 5$; Find $p(x - 4)$

$x^3 - 12x^2 + 48x - 69$

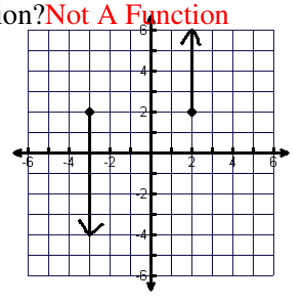
18) $h(t) = 2 \cdot 3^{t+3}$; Find $h(4 + t)$

$2 \cdot 3^{7+t}$

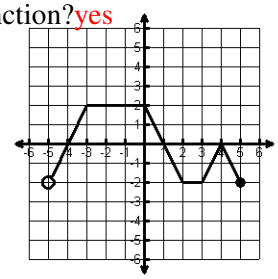
Answer Key Domain and Range Worksheet #1 **Name:** _____

State the domain and range for each graph and then tell if the graph is a function (write yes or no). If the graph is a function, state whether it is discrete, continuous or neither.

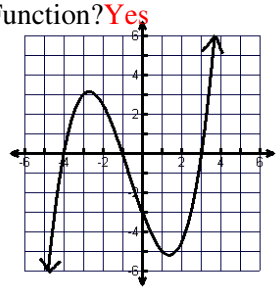
1) Domain: -3 and -2
Range $(-\infty, \infty)$
Function?Not A Function



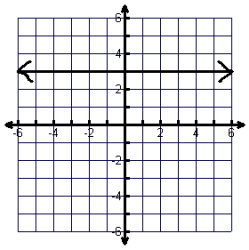
2) Domain: (-5, 5]
Range[-2, 2]
Function?yes



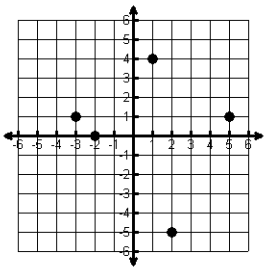
3) Domain $(-\infty, \infty)$
Range $(-\infty, \infty)$
Function?Yes



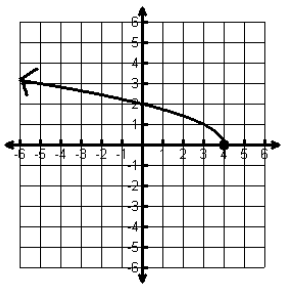
4) Domain$(-\infty, \infty)$
Range 3
Function? yes



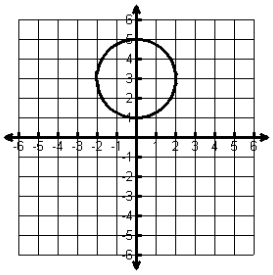
5) Domain -3, -2, 2, 4 and 5
Range -5, 0, 1 and 4
Function? Yes



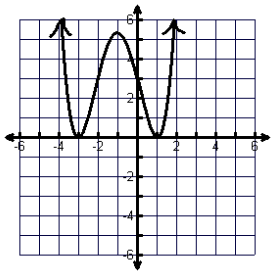
6) Domain (-∞, 4]
Range [0,∞)
Function?_yes



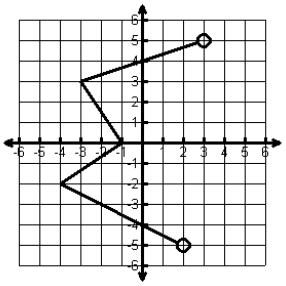
7) Domain[-2,2]
Range[-2,2]
Function?No



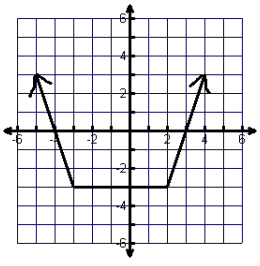
8) Domain$(-\infty, \infty)$
Range [0,∞)
Function?Yes



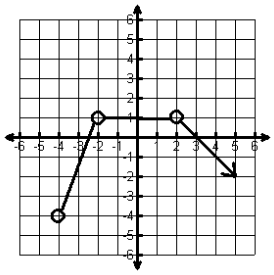
9) Domain[-4,3)
Range(-5, 5)
Function?No



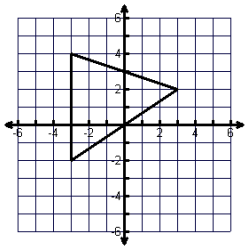
10) Domain$(-\infty, \infty)$
Range[-3, ∞)
Function?yes



11) Domain(-4,∞)
Range(-∞, 1]
Function?yes



12) Domain[-3,3]
Range[-3,4]
Function?No

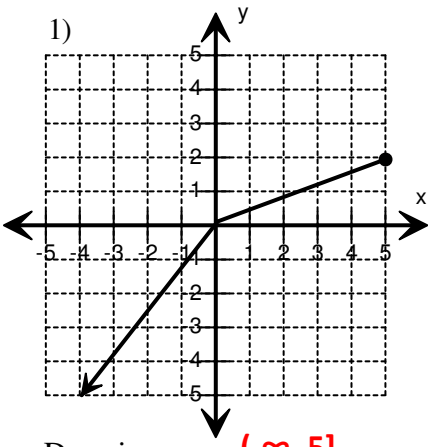


Name: _____ Score: _____

Answer Key

Find the Domain and Range for each graph.

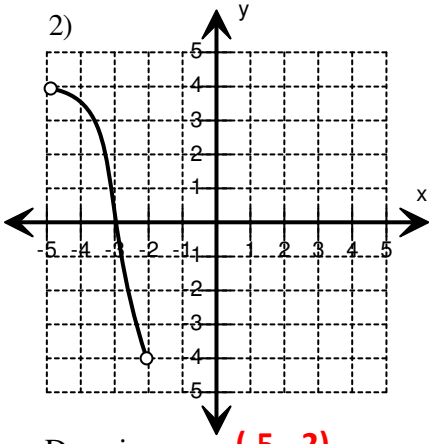
1)



Domain : (-∞, 5]

Range : (-∞, 2]

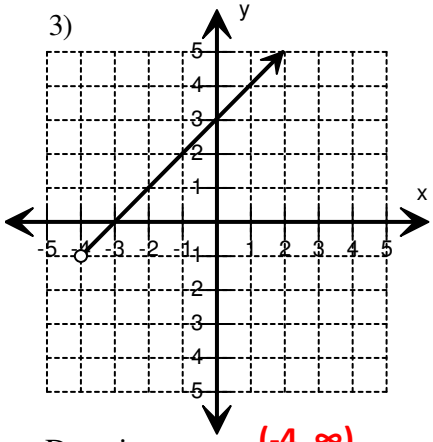
2)



Domain : (-5, -2)

Range : (-4, 4)

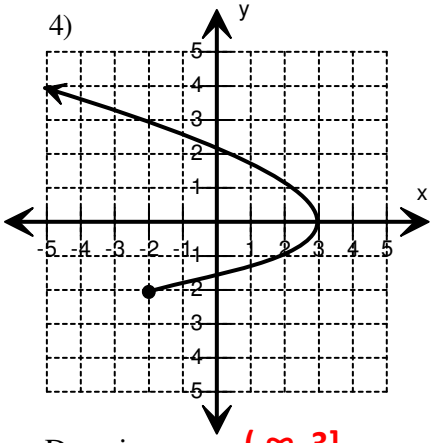
3)



Domain : (-4, ∞)

Range : (-1, ∞)

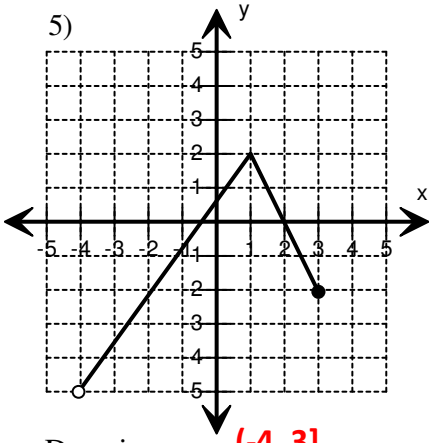
4)



Domain : (-∞, 3]

Range : [-2, ∞)

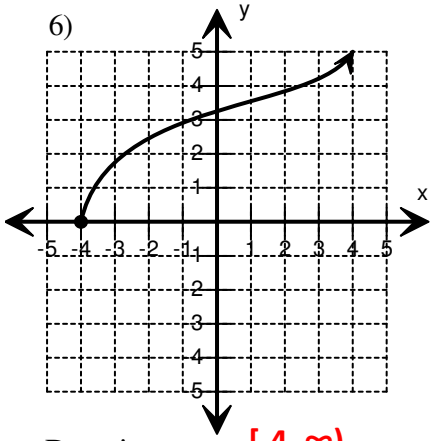
5)



Domain : (-4, 3]

Range : (-5, 2]

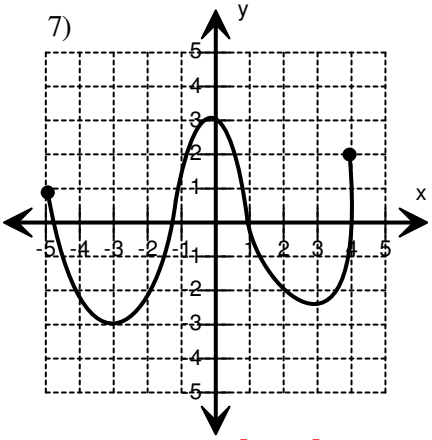
6)



Domain : [-4, ∞)

Range : [0, ∞)

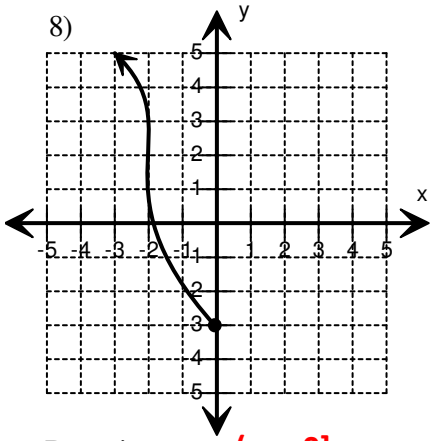
7)



Domain : [-5, 4]

Range : [-3, 3]

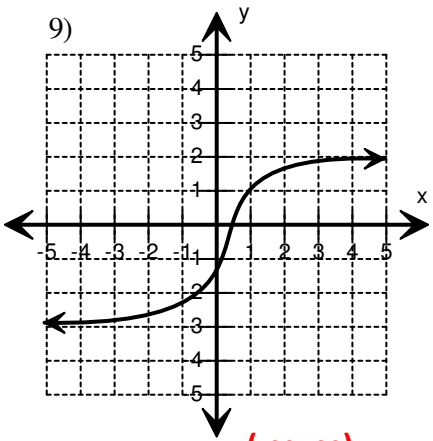
8)



Domain : (-∞, 0]

Range : [-3, ∞)

9)



Domain : (-∞, ∞)

Range : (-∞, ∞)