CE Math 1010: Activities 1.1-1.4 Practice

Name

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Modeling with Functions	Date	Period
 If f(x) represents miles driven after x hours, a) Give an ordered pair equivalent to: f(3)=105 b) What does the 3 represent in f(3)=105? c) What does 105 represent in f(3)=105? 	2) In the statement "gallons of gas a function of miles driven"a) What is the input?b) What is the output?	used is a
 3) Let G(v) represent cummulative grade point average as a function of hours per week spent playing video games. Interpret G(3)=2.84 	 4) Which situation represents a fundary (a member of your family, the their birth) b) (the date of birth, a member of family) Explain 	ction? e date of f your

Evaluate each function.

5) g(x) = -4x + 2; Find g(-8)

6) h(t) = t + 1; Find h(-7)

7) p(x) = -2x + 5; Find p(-8)

8) w(t) = 2t + 3; Find w(0)

9)
$$f(x) = 2x + 5$$
; Find $f(4)$ 10) $f(x) = x - 5$; Find $f(0)$

11)
$$p(n) = 3n$$
; Find $p(r)$
12) $h(x) = 3x + 2$; Find $h(B)$

13)
$$f(x) = 4x - 5$$
; Find $f(n)$
14) $k(x) = 3x + 1$; Find $k(cat)$

15)
$$g(x) = 2x - 5$$
; Find $g(-x)$
16) $k(x) = 3x - 4$; Find $k(m)$

- 17) The following set of ordered pairs illustrate the number of hours worked and gross pay. Plot them on the axis. (1, 9.5)(3, 28.5)(7, 66.5)(10, 95)
- 18) What is the practical domain of the function in question 1 if you are limited to working no more than 25 hours per week?





- 19) What is the practical range of the function in question 1 if you are limited to working no more than 25 hours per week?
- 20) Would you consider the function in question 1 to be discrete or continuous? Why?

21) A ball is thrown in the air. The time and height of the ball are given by the ordered pairs below. Graph them on the axis provided. (0, 96)(1, 160)(2, 192)(2.5, 196)(4, 160)(5, 96)(6, 0)

22) What is the practical domain of the function in question 5?

23) What is the practical range of the function in question 5?

3 4 5 6

2

8 x

7

24) Is the function in question 5 continuous or discrete? Explain.

25) Is the graph a function? If so, is it increasing or decreasing?



26) Is the graph a function? If it is a function, is it increasing or decreasing?



27) Is the graph a functions? If its a function, is it increasing, decreasing or both?



28) Is the following a function? If it is a cunction, how would you describe it: increasing, decreasing or constant?

