Name: _____ **Class:** _____ **Date:** _____ **ID: Z**

AFM Unit 4 Vocabulary - Study Guide

Matching

a. Function
b. Domain
c. Range
d. Increasing
e. Decreasing
f. Constant
g. Interval Notation
h. Union
i. Vertical Line Test
j. Asymptote
k. Piecewise Function
l. Continuous
m. Discontinuous
n. Evaluate
o. Quadratic Function
p. Square Root Function
q. Absolute Value Funciton
r. Exponential Function
s. Parent Function
t. Isometric Transformation
u. Reflection
v. Horizontal Transformation
w. Vertical Transformation
x. Vertical Stretch/Shrink
y. Horizontal Stretch/Shrink
z. Critcal Points

____ 1. "U" combines multiple sets.

____ 2. A transformation where the graph is affected by the value "a" for $f(a \cdot x)$.

____ 3. As x increases, y stays the same.

____ 4. A function in the form $y = ab^x$, where $a \neq 0$, $b > 0$, and $b \neq 0$.

____ 5. A transformation where the graph is affected by the value "a" for $a \cdot f(x)$.

____ 6. As x increases, y decreases.

____ 7. A function written as $f(x) = |x|$, where $f(x) \geq 0$ for all values of x.

____ 8. A boundry line (imaginary) that a graph gets infinitly close to but never crosses.

____ 9. A rule that assigns each element, x, in a set "A" to exactly one element, y, in a set "B".

____ 10. When the pieces of a piecewise function connect with each other so that when you draw the graph you do not have to pick up you pencil.

____ 11. All possible input values (x-values).

____ 12. A function that contains a square root of a variable.

____ 13. A transformation where the graph moves "c" units given that $f(x+c)$ or $f(x-c)$.

____ 14. A piecewise function where there are holes, jumps, or gaps.

____ 15. If a vertical line intersects the graph more than once, then the graph is not a function.

____ 16. Used when writing domain and range ( ) or [ ].

____ 17. The simplest of graphs in a family.

____ 18. As x increases, y increases.

____ 19. To find the value of an expression.

____ 20. A function defined by 2 or more equations with restrictions in the domain.

____ 21. The places where there is a change in the domain for each piece of a piecewise functions.

____ 22. A function descibed by the equation $f(x) = ax^2 + bx + c$, where $a \neq 0$.

____ 23. A transformation where the graph moves "c" units given that $f(x)+c$ or $f(x)-c$.

____ 24. All possible output values (y-values).

____ 25. A transformation in which the graph is only shifted vertically or horizontally, with NO shrinking or stretching.

____ 26. A transformation in which the graph is reflected across the x- or y- axis.

AFM Unit 4 Vocabulary - Study Guide
Answer Section

MATCHING

1. ANS: H PTS: 1
2. ANS: Y PTS: 1
3. ANS: F PTS: 1
4. ANS: R PTS: 1
5. ANS: X PTS: 1
6. ANS: E PTS: 1
7. ANS: Q PTS: 1
8. ANS: J PTS: 1
9. ANS: A PTS: 1
10. ANS: L PTS: 1
11. ANS: B PTS: 1
12. ANS: P PTS: 1
13. ANS: V PTS: 1
14. ANS: M PTS: 1
15. ANS: I PTS: 1
16. ANS: G PTS: 1
17. ANS: S PTS: 1
18. ANS: D PTS: 1
19. ANS: N PTS: 1
20. ANS: K PTS: 1
21. ANS: Z PTS: 1
22. ANS: O PTS: 1
23. ANS: W PTS: 1
24. ANS: C PTS: 1
25. ANS: T PTS: 1
26. ANS: U PTS: 1

AFM Unit 4 Vocabulary - Study Guide [Answer Strip] **ID: Z**

__H__ 1.

__Y__ 2.

__F__ 3.

__R__ 4.

__X__ 5.

__E__ 6.

__Q__ 7.

__J__ 8.

__A__ 9.

__L__ 10.

__B__ 11.

__P__ 12.

__V__ 13.

__M__ 14.

__I__ 15.

__G__ 16.

__S__ 17.

__D__ 18.

__N__ 19.

__K__ 20.

__Z__ 21.

__O__ 22.

__W__ 23.

__C__ 24.

__T__ 25.

__U__ 26.