## Library of Functions

# 1. Which 5 functions do not have All Real Numbers as their Domain? 

Square Root, Reciprocal, "Volcano", Natural Log, Tangent

# 2. Which 2 functions have no negative numbers in their Domain? 

Square Root, Natural Log

## 3. Which 4 functions have some type of discontinuity?

Reciprocal, "Volcano", Tangent, Greatest Integer

# 4. Which 2 functions have a domain of all real numbers except zero? 

Reciprocal, "Volcano"

# 5. Which 3 functions are bounded above and below? 

Sine, Cosine, Logistic

## 6. Which 4 functions are EVEN?

Absolute Value, Squaring, "Volcano", Cosine

# 7. Which 3 functions have vertical asymptotes at $\mathrm{x}=0$ ? 

Reciprocal, "Volcano", Natural Log

# 8. Which 4 functions have horizontal asymptotes at $\mathrm{y}=0$ ? 

Reciprocal, "Volcano", Exponential, Logistic

## 9. Which 5 functions are ODD?

Identity, Cubing, Cube Root, Reciprocal, Sine, Tangent

# 10. Which 6 functions increase on their entire domain? 

Identity, Cubing, Cube Root, Exponential, Natural Log, Logistic

## 11. Which 4 functions have no zeros?

Reciprocal, "Volcano", Exponential, Logistic

# 12. Which 2 functions are identical except for a horizontal shift? 

Sine and Cosine

# 13. Which 5 functions have a range of all real numbers? 

Identity, Cubing, Cube Root, Natural Log, Tangent

