Date: Hour:

Precalculus Unit 7 Extra Practice

I CAN analyze the twelve basic functions.			
Identity Function	Squaring Function	Cubing Function	Reciprocal Function
y = x	$y = x^2$	$y = x^3$	$y = \frac{1}{x}$
Square Root Function	Absolute Value Function	Exponential Function	Natural Logarithm
$y = \sqrt{x}$	y = x	$y = e^x$	$y = \ln x$
Sine Function	Cosine Function	Greatest Integer Function	Logistic Function
$y = \sin x$	$y = \cos x$	y = int [x]	$y = \frac{1}{1 + e^{-x}}$

Identify which of the twelve basic functions, listed above, fit the description given.

- 1. The three functions that are even.
- 2. The two functions with infinitely many zeroes.
- 3. The three functions with end behavior $\lim_{x \to -\infty} f(x) = -\infty$.
- 4. The three functions that are bounded.
- 5. The four functions that are odd.
- 6. The three functions with no zeros.
- 7. The two functions with end behavior $\lim_{x \to -\infty} f(x) = \infty$.
- 8. The three functions that are bounded above.

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