Online Homework System

Assignment Worksheet
9/15/11 - 4:14 PM

Name: _____ **Class:** Calculus I - A

Class #: _____ **Section #:** _____

Instructor: Monica Nevins **Assignment:** Assignment 1 (part a : multiple choice)

Question 1: (1 point)

Let $f(x)=\dfrac{x^4}{x^6+1}$. Is f an even function, an odd function, or neither even nor odd?

(a) Even

(b) Neither even nor odd

(c) Odd

Question 2: (1 point)

Let

$$f\left(x\right)=\frac{x^2-64}{x^2-10x+21}.$$

What is the domain of f? It is the set of all x such that:

(a) $x>8$ and $x\neq 3,\ 7$

(b) $x\neq 3,\ 7$

(c) $x<3$ and $x>7$

(d) $3<x<7$

(e) $x\neq 3,\ 7,\ 8$

(f) $x < 3$, $x > 7$ and $x \neq 8$

Question 3: (1 point)

Let

$$g\left(t\right) = \frac{\sqrt{t-3}}{\sqrt{6-t}}.$$

What is the domain of g ? It is the set of all t such that:

(a) $3 \leq t \leq 6$

(b) $3 < t < 6$

(c) $t \geq 3$

(d) None of the given answers are correct.

(e) $3 \leq t < 6$

(f) $t \neq 6$

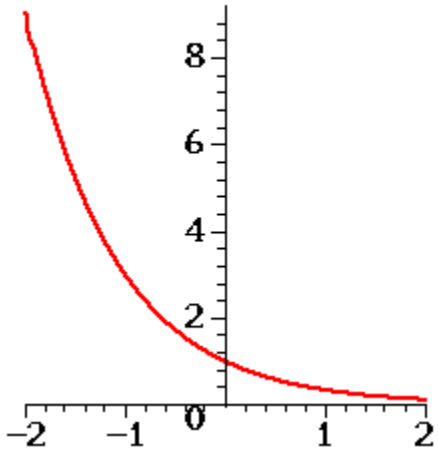
Question 4: (1 point)

Associate each function to its graph.

___ $y = -x^3$ ___ $y = 3x$ ___ $y = x^{1/3}$

___ $y = x^3$ ___ $y = 3^{-x}$ ___ $y = 3^x$

1.



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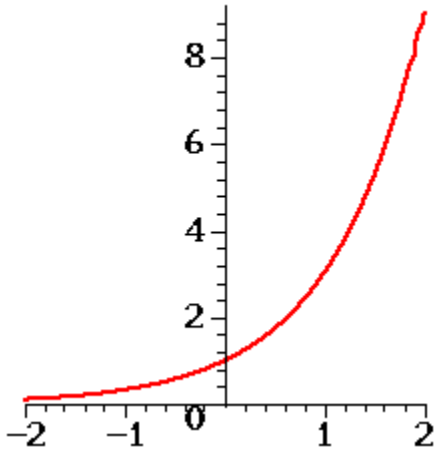

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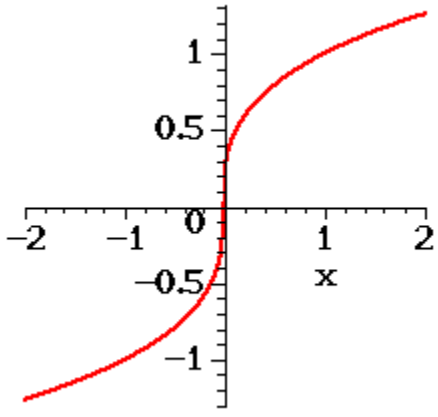

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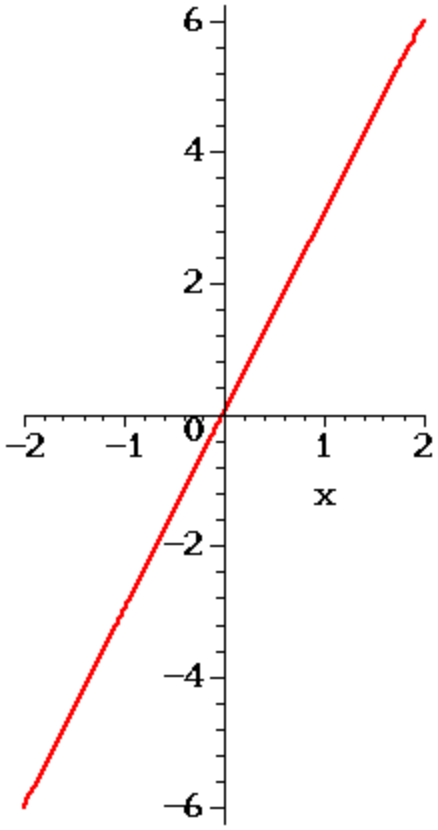

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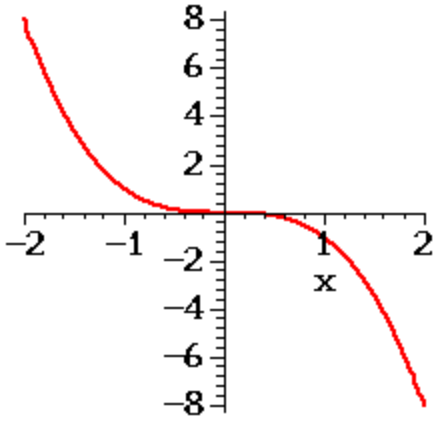

6.