
Practice Questions for Exam 2 (2.6 to 3.2), November 10th 2022

EMPLID:_____

Directions: Show all of your work as neatly and clearly as possible in the space provided and write your answer on the line provided.

1) Let $f(x) = 2x - 3$ and $g(x) = 5 - x^2$ to evaluate $g(f(x))$.	2) Find the inverse of $f(x) = \sqrt[3]{\frac{6-x}{7}}$.
2) Write $f(x) = x^2 - f(x + 2)$ is standard (contactor)	(4) Find the near of $f(x) = x^2 - f(x + 2)$ White
5) Write $f(x) = x^2 - 6x + 3$ in standard/vertx form.	4) Find the range of $f(x) = x^2 - 6x + 3$. Write your answer in interval notation.

5) Find the maximum or minimum of	6) Sketch the graph of $f(x) = x^2 - 6x + 3$.
$f(x) = x^2 - 6x + 3.$	
7) Find all of the zeros of $P(x) = x^3 - 2x^2 - 15x$.	8) Determine the End Behavior of
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9) Make a rough sketch of the polynomial $P(x) = x^3 - 2x^2 - 15x.$	10) The graphs of f and g are given. Find a formula for $g(x)$.
	y $f(x) = x^2$ -6 -4 $-2-2-6-4-6-4-6-7-$
11) Let $f(x) = 2\sqrt{x}$. If $g(x)$ is the graph of f shifted down 4 units and left 4 units, write a formula for $g(x)$	12) True or False: $f^{-1}(f(x)) = x$.
mula for $g(x)$.	



17) Find the domain and range of $f(x) = \frac{x+2}{x+6}$. Write your answer in interval notation.	18) Find the inverse of $g(x) = \frac{1}{x+4}$.
Write your answer in interval notation.	20) Sketch the graph of $y = -2 x + 5 + 3$ not by plotting points but by starting with the graph of a parent function and applying transformation.