



MHF4U Test #4: Chapters 8

Name: _____

Date: _____

Test Summary

Knowledge & Understanding	Thinking & Invest.	Communication	Application
/15	/15	/10	/15

Part A – Multiple Choice [K/U – 15 marks]

- To add two functions, you simply add the corresponding y -coordinates to get the combined function value.
a) True b) false
- Given the functions $f(x) = x^2 + 1$ and $g(x) = 3 - x$, determine an equation for the combined function $y = f(x) + g(x)$.
a. $y = x^2 - x + 2$ b. $y = x^2 - x + 4$ c. $y = x^2 + x + 4$ d. $y = x^2 + x - 2$
- Given the functions $f(x) = x^2 + 1$ and $g(x) = 3 - x$, determine an equation for the combined function $y = f(x)g(x)$.
a. $y = -x^3 + 3x^2 - x + 3$ b. $y = -x^3 + 3x^2 + x - 3$ c. $y = x^3 + 3x^2 - x + 3$ d. $y = -x^3 + 2x^2 - x + 3$
- Given the functions $f(x) = x^2 - x$ and $g(x) = x - 1$, determine an equation for the combined function $y = \frac{f(x)}{g(x)}$.
a. $y = x^2 + x, x \neq 1$ b. $y = \frac{x}{x-1}, x \neq 1$ c. $y = x^2 - x, x \neq 1$ d. $y = \frac{x^2 - x}{x-1}, x \neq 1$
- Given the functions $f(x) = x^2 - x$ and $g(x) = x - 1$, determine an equation for the composite function $y = f(g(x))$.
a. $y = x^2 - 3x + 1$ b. $y = x^2 - 3x + 2$ c. $y = x^2 - x - 1$ d. $y = x^2 - x + 1$
- Given the functions $f(x) = \sin x$ and $g(x) = x$, determine the domain of the combined function $y = f(x) + g(x)$.
a. $\{x \in \mathbb{R}, -2\pi \leq x \leq 2\pi\}$ b. $\{x \in \mathbb{R}\}$ c. $\{x \in \mathbb{R}, -1 \leq x \leq 1\}$ d. cannot be determined
- In general, the zeros of a function $f(x)$ appear on the graph of $y = f(x)g(x)$ as
a. x -intercepts b. holes c. vertical asymptotes d. local extreme points
- The zeros of a function $g(x)$ appear on the graph of $y = \frac{f(x)}{g(x)}$ as
a. x -intercepts b. holes c. vertical asymptotes d. B or C
- Given the cost function, $C(n)$, and the revenue function, $R(n)$, for a company, the profit function is given by $P(n) = C(n) - R(n)$.
a) True b) false
- Given the functions $f(x) = 3x - 2$ and $g(x) = 5^x$, determine the value of $f(g(1))$.
a. 5 b. 8 c. 13 d. 25

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