Directions:
• Be careful and check your solutions thoroughly as there will be no partial credit awarded.
• A score of 5 out of 6 is required to pass.

Problem 1  Decide which is the graph of \( y = -\cos x \).

A  B  C  D

Answer: ____________________

Problem 2  Solve the following equation for \( x \): \( x^2 = 3 - 4x \).

Answer: ____________________

Problem 3  If \( y = \sqrt{2x} + \frac{5}{x} + \pi \), find \( \frac{dy}{dx} \).

Answer: ____________________

Problem 4  If \( f(s) = (\sin s)(\ln s) \), find \( f'(s) \).

Answer: ____________________

Problem 5  If \( y = \frac{\cos x}{x^3 - 1} \), find \( \frac{dy}{dx} \).

Answer: ____________________

Problem 6  If \( f(t) = \sin(e^t) \), find \( f'(t) \).

Answer: ____________________