

MIDTERM EXAM – CALCULUS 1

Directions: Solve the equations carefully and box your final answer. Show your solution.

1. $y = \sqrt{1 + \sqrt{(x + 1)}}$

2. $f(x) = x\sqrt{1 - x^2}$

3. $x^2 - xy + y^2 = 3$; find y''

4. $4x^2y^7 - 2x = x^5 + 4y^3$