
Name: _____

QUIZ 13 ♣

MATH 200
February 26, 2026

1. This problem concerns the equation $x^2 + xy + y^2 = 7$

(a) Find $\frac{dy}{dx}$.

(b) Use your answer from part (a) to find the slope of the tangent to the graph of $x^2 + xy + y^2 = 7$ at the point $(2, -3)$.

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1. This problem concerns the equation $xy^3 = xy + 6$

(a) Find $\frac{dy}{dx}$.

(b) Use your answer from part (a) to find the slope of the tangent to the graph of $xy^3 = xy + 6$ at the point $(1, 2)$.