PRACTICE QUIZ 17

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Time: 10 min
Time to beat: ? min

Problem 1. Find $\frac{dy}{dx}$ given that $x^2y - xy^2 + x^2 + y^2 = 0$.

Problem 2. Find $\frac{dy}{dx}$ if $x^2 + y^2 = xy + 3$.

Problem 3. Given that $x^3y + xy^3 = 2$, find $\frac{dy}{dx}$ at the point $(1,1)$.

Problem 4. Find the second derivative y'' for $x + xy + y = 2$.