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

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

   (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 $(2, -3)$.

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

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

   (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 $(1, 2)$.