2015 AP® CALCULUS AB FREE-RESPONSE QUESTIONS

- 6. Consider the curve given by the equation $y^3 xy = 2$. It can be shown that $\frac{dy}{dx} = \frac{y}{3y^2 x}$.
 - (a) Write an equation for the line tangent to the curve at the point (-1, 1).
 - (b) Find the coordinates of all points on the curve at which the line tangent to the curve at that point is vertical.
 - (c) Evaluate $\frac{d^2y}{dx^2}$ at the point on the curve where x = -1 and y = 1.

STOP

END OF EXAM