2013 AP® CALCULUS AB FREE-RESPONSE QUESTIONS

- 6. Consider the differential equation $\frac{dy}{dx} = e^y (3x^2 6x)$. Let y = f(x) be the particular solution to the differential equation that passes through (1, 0).
 - (a) Write an equation for the line tangent to the graph of f at the point (1, 0). Use the tangent line to approximate f(1.2).
 - (b) Find y = f(x), the particular solution to the differential equation that passes through (1, 0).

STOP

END OF EXAM