Name: _____

Choose D for "None of these"

19. Find the point on the parametric curve $x = e^{3t} + 5$, $y = e^{2t} - 2t + 1$ which has a horizontal tangent line.

    A. (e^3, e^2)

    B. $(6, 0)$

    C. $(5, e - 1)$

20. Which of these integrals gives the arclength of the curve $y = x^2 - 3x + 4$ between $(1, 2)$ and $(3, 4)$?

    A. $\int_1^3 \sqrt{4t^2 - 12t + 10}\, dt$

    B. $\int_2^4 \sqrt{2t + 3t^2}\, dt$

    C. $\int_0^1 (4 + 2t)\, dt$