## Quiz 13: 10.2 Calculus with Parametric Curves

July 7, 2015

- 1. Find the point on the curve with parametric equations  $x = t^3 t$ ,  $y = t^2 3$  where the tangent is horizontal.
  - **A.** (0, -3)
  - B. (-3, -3)
  - C. (2, -2)
  - D. (-2, -2)

$$\frac{dy}{dx} = \frac{\frac{dy}{dt}}{\frac{dx}{dt}}$$
$$= \frac{2t}{3t^2 - 1} = 0 \Rightarrow t = 0 \Rightarrow (x, y) = (0, -3)$$