

Math 241: Quiz 6

Show ALL Work

Name _____

Calculate the arc length of the curve traced by

$$x = t^3 - 3t, \quad y = \frac{4t^3}{3} + 4t, \quad z = 3t^2$$

where $0 \leq t \leq 3$. Simplify your answer.

Arc Length: (Simplify)