

MATH 10B (B. Engheta) – Quiz #12 – August 17, 2006

Name and last 4 digits of student ID: _____

Let \mathbf{c} be the segment of the parabola $z = x^2$, $y = 3$ from $(-1, 3, 1)$ to $(2, 3, 4)$.
Evaluate $\int_{\mathbf{c}} x^2 dx - xy dy + 2 dz$.