

Quiz 18

MATH 139-01 and -02
Tuesday, December 2, 2003

Be sure to **show your work**. Unsupported answers receive no credit.

1. Find each indefinite integral. Be sure to show all work.

(a) $\int \frac{3x^2 + 1}{(x^3 + x - 2)^4} dx$

(b) $\int 2x\sqrt{4x^2 + 16} dx$

(c) $\int \frac{x}{x^2 + 1} dx$

2. Use the Fundamental Theorem to evaluate $\int_0^1 (2x - 1)e^{x^2 - x} dx$.