

Math 1B, Quiz 2

Monday, February 2

Name:

1. (3 pts) Evaluate the integral $\int \frac{x^2 + 3}{(x - 1)^2} dx$.

2. (3 pts) Evaluate the integral $\int \frac{x + 1}{x(x^2 + 1)} dx$.

3. (4 pts) Evaluate the integral $\int \frac{1}{(1 - x^2)^{3/2}} dx$.

Extra Credit

Mark all statements as true or false (0.1 pt each). Answers will be judged based on their consistency with your other answers rather than according to a theoretical “correct” solution.

1. Exactly one of these statements is false.
2. Exactly two of these statements are false.
3. All three of these statements are false.