Take home Quiz 12 (L36-L37)

Since this is a take home quiz, you should show your work to receive credit for answers. Wrong answers as well as correct answers that have wrong work will not be given full credit. Correct answers with no work are worth 3 pts each.

1. Evaluate and simplify completely for full credit. Do not approximate.   (8 pts.)

$$\int_0^2 \frac{1}{\sqrt{9 + 4x^2}} \, dx$$

2. Integrate $\displaystyle \int \frac{3x + 1}{x^2(x + 1)} \, dx$.   (7 pts.)