Name: _

Math 1B: Quiz 2 GSI: Theo Johnson-Freyd

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You must always justify your answers. This means: show your work, show it neatly, and when in doubt, use words (and pictures!) to explain your reasoning. No justification = no points.

1. (5 pts) Evaluate the integral
$$\int \frac{x-1}{x^2+2x} dx$$
.

2. (5 pts) Evaluate the integral $\int \frac{x^2}{(4-x^2)^{3/2}} dx$.

^{3. (}bonus) It's not wrong to write the answer to problem 1 as "(function) + C", but it's not totally correct either, as C isn't truly a constant. At what x values may the value of C change?