QUIZ 6 Your name _____

1. [10 pts] Compute $\displaystyle\int \frac{x^2+10x+7}{(x-1)(x+2)^2}\,dx$, and combine the logarithmic terms in the answer into a single term. (If you end up with some weird-looking numbers, you may have made an arithmetic mistake.)

Problem 2 is on the back side.

2. [10 pts] Compute $\displaystyle\int \frac{\sqrt{16-x^2}}{x^2}\,dx$. (It may be useful to recall that the derivatives of sin, cos, tan, cot, sec, and csc are, respectively, cos, $-\sin$, $\sec^2$, $-\csc^2$, $\sec\cdot\tan$, and $-\csc\cdot\cot$.)