

Show all work clearly and in order, and circle or box your final answers.  
You have 20 minutes to take this 10 point quiz.

1. (3 points) Write  $\ln \left[ \frac{x^2 - x - 2}{(x + 4)^2} \right]^{1/3}$  as a sum or difference of logarithms. Simplify as much as possible.

2. (3 points) Solve  $2^{2x-1} = 4$ .

3. (4 points) Find the inverse of  $f(x) = \frac{4}{3x}$  and check your answer.