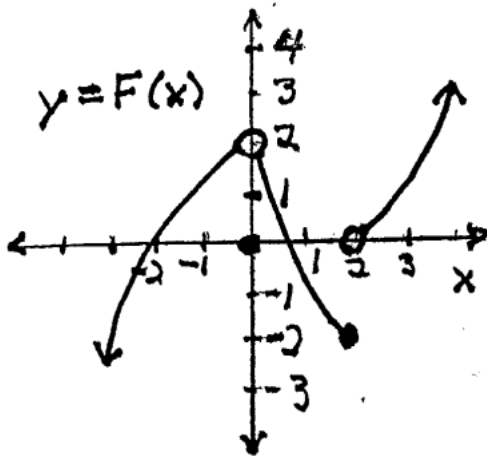


Review Problems

September 2, 2016

1. (Fall 2005, Exam 1, #12) Find the solution of $\ln(5 - 2x) = -3$.
2. (Fall 2009, Exam 1, #7) Simplify the quantity $\log_2 3 + 2\log_2 5 + \log_3 9$ to a single logarithm.
3. (Fall 2009, Exam 1, #13) For the function $F(x)$ pictured, which of the following statements are true?

- I. $\lim_{x \rightarrow 0} F(x) = 2$
- II. $\lim_{x \rightarrow 2^-} F(x) = 0$



4. (Fall 2010, Exam 1, #11) Evaluate $\lim_{x \rightarrow 1^+} \frac{2x}{3x - 3}$.
5. (Fall 2011, Exam 1, #5) Solve for x : $e^{|2x-1|} = 2$.
6. (Fall 2011, Exam 1, #8) Compute $\lim_{x \rightarrow 2^-} \frac{x^2 - x - 2}{(x - 2)^2}$.