

EXAM 2 BONUS

MATH 130: Calculus I, Section 4

Due April 12, 2017 at the beginning of class

Name (Print): _____

This assignment should be done on your own; do not discuss it with anyone except Prof. King! YOU MUST SHOW ALL WORK TO RECEIVE CREDIT. Show each step carefully – i.e. don't skip steps! **Neatness is a plus!** You may earn up to five bonus points on your exam for this assignment. Note that earning all five points will be extremely challenging! You may just turn in your solution. You need not resubmit your exam.

Let $f(x) = \frac{-x^2 + 11x - 24}{x^2 + x - 72}$.

(a) At what value(s), if any, does f have a removable discontinuity? Justify your answer.

(b) At what value(s), if any, does f have an infinite discontinuity? Justify your answer.