

Team Project 2019 School: _____ Team # _____

Name 1: _____ Name 2: _____

Name 3: _____ Name 4: _____

Team Project- Instructions

1. Print school name and names of team members neatly in the spaces provided above.
2. Use unlined paper for scratch work. Use paperclip when returning exam and all pages.
3. Print the complete solution, including work required to get your answer, neatly on the lined paper provided. Entries will be judged on the mathematical correctness and the organization of the solution. Answers should be neatly printed and clearly expressed.
4. Stay at your table until a proctor collects your solutions. Hand in solutions (on lined paper) with this problem sheet clipped to it as a cover sheet.
5. Good luck and good Mathematics!

Find all real numbers x such that:

$$(x^2 - 7x + 11)^{x^2 - 13x + 42} = 1$$