

Your TA: \_\_\_\_\_

Seat #:  -

**Math 105 TOPICS IN MATHEMATICS  
EXTRA CREDIT HOMEWORK – I**

April 6 (Mon), 2015

**Due date: April 13 (Mon), 2015**

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**Line #:** 52920.

**ID #:** \_\_\_\_\_

**Name:** \_\_\_\_\_

**Problem.** Fill numbers in the blank spots. Give answers in reduced fractions.

$$\begin{array}{cccccccccccc} \frac{1}{2} & \frac{1}{3} & \frac{1}{4} & \frac{1}{5} & \frac{1}{6} & \frac{1}{7} & \frac{1}{8} & \frac{1}{9} & \frac{1}{10} & \frac{1}{11} & \frac{1}{12} & \frac{1}{13} \\ 1 \setminus & /-1 \setminus 2 & /-2 \setminus 3 & /-3 \setminus 4 & /-4 \setminus 5 & /-5 \setminus 6 & /-6 \setminus 7 & /-7 \setminus 8 & /-8 \setminus 9 & /-9 \setminus 10 & /-10 \setminus 11 & /-11 \\ \frac{1}{6} & \frac{1}{6} & \frac{3}{20} & \frac{2}{15} & \frac{5}{42} & \frac{3}{28} & \frac{7}{72} & \frac{4}{45} & \frac{9}{110} & \frac{5}{66} & \frac{11}{156} \\ 1 \setminus & /-1 \setminus 2 & /-2 \setminus 3 & /-3 \setminus 4 & /-4 \setminus 5 & /-5 \setminus 6 & /-6 \setminus 7 & /-7 \setminus 8 & /-8 \setminus 9 & /-9 \setminus 10 & /-10 \\ 0 & \frac{1}{30} & \frac{1}{20} & \frac{2}{35} & \frac{5}{84} & \frac{5}{84} & \frac{7}{120} & \frac{28}{495} & \frac{3}{55} & \frac{15}{286} \\ 1 \setminus & /-1 \setminus 2 & /-2 \setminus 3 & /-3 \setminus 4 & /-4 \setminus 5 & /-5 \setminus 6 & /-6 \setminus 7 & /-7 \setminus 8 & /-8 \setminus 9 & /-9 \\ \frac{-1}{30} & \frac{-1}{30} & \frac{-3}{140} & \frac{-1}{105} & 0 & \frac{1}{140} & \frac{49}{3960} & \frac{8}{495} & \frac{27}{1430} \\ 1 \setminus & /-1 \setminus 2 & /-2 \setminus 3 & /-3 \setminus 4 & /-4 \setminus 5 & /-5 \setminus 6 & /-6 \setminus 7 & /-7 \setminus 8 & /-8 \\ 0 & \frac{-1}{42} & \frac{-1}{28} & \frac{-4}{105} & \frac{-1}{28} & \frac{-29}{924} & \frac{-7}{264} & \frac{-28}{1287} \\ 1 \setminus & /-1 \setminus 2 & /-2 \setminus 3 & /-3 \setminus 4 & /-4 \setminus 5 & /-5 \setminus 6 & /-6 \setminus 7 & /-7 \\ \frac{1}{42} & \frac{1}{42} & \frac{1}{140} \\ 1 \setminus & /-1 \setminus 2 & /-2 \setminus 3 & /-3 \setminus 4 & /-4 \setminus 5 & /-5 \setminus 6 & /-6 \\ 1 \setminus & /-1 \setminus 2 & /-2 \setminus 3 & /-3 \setminus 4 & /-4 \setminus 5 & /-5 \\ 1 \setminus & /-1 \setminus 2 & /-2 \setminus 3 & /-3 \setminus 4 & /-4 \\ 1 \setminus & /-1 \setminus 2 & /-2 \setminus 3 & /-3 \\ 1 \setminus & /-1 \setminus 2 & /-2 \\ 1 \setminus & /-1 \end{array}$$