$$P = \left[\left(\frac{2}{7} \cdot \frac{2}{10 \cdot 7} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) + \right.$$

$$+ \left. \left(\frac{2}{7} \cdot \frac{2}{10 \cdot 7} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) + \right.$$

$$+ \left. \left(\frac{2}{7} \cdot \frac{2}{10 \cdot 7} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) + \left. \left(\frac{2}{7} \cdot \frac{2}{10 \cdot 7} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11} \right) \right] = \left. \left(\frac{2}{7} \cdot \frac{2}{10 \cdot 7} \right) \left(\frac{2}{9} \cdot \frac{2}{10 \cdot 7} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11} \right) \right] = \left. \left(\frac{2}{9} \cdot \frac{2}{9} \right) + \left(\frac{2}{7} \cdot \frac{2}{3} \right) \left(\frac{2}{9} \cdot \frac{2}{2} \right) \left(\frac{2}{9} \cdot \frac{2}{11} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11} \right) \right] = \left. \left(\frac{2}{9} \cdot \frac{2}{9} \right) + \left(\frac{2}{7} \cdot \frac{2}{3} \cdot \frac{2}{11 \cdot 9} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11} \right) \right] = \left. \left(\frac{2}{9} \cdot \frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) + \left(\frac{2}{7} \cdot \frac{2}{11 \cdot 9} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \right] \left[\left(\frac{2}{9} \cdot \frac{2}{11 \cdot 9} \right) \left(\frac{2}{9} \cdot \frac{2}{11$$

$$\frac{C_{3}^{2}C_{5}^{2}}{C_{4}^{2}C_{5}^{2}} = \frac{C_{4}^{0}}{C_{4}^{2}} \cdot \frac{C_{5}^{0}}{C_{5}^{2}} = \frac{A_{5}^{2}}{A_{5}^{2}} \cdot \frac{A_{5}^{2}}{A_{5}^{2}} = \frac{A_{5}^{2}}{A_{5}^{2}}$$

$$=\frac{2.6.7}{9.10.10.11}=\frac{7}{3.5.5.11}=\frac{7}{3.11.25}$$

$$\frac{C_{7} C_{3} C_{5} C_{1}}{C_{10}^{2} C_{10}^{2}} = \frac{C_{4} C_{8}}{C_{10}^{2}} \cdot \frac{C_{8} C_{2}}{C_{10}^{2}} =$$

$$= 7 3 \left(\frac{10 \cdot 9}{2!}\right)^{-1} \cdot 9 \cdot 2 \left(\frac{11 \cdot 10}{2!}\right)^{-1} =$$

$$= 2 \frac{7 \cdot 3}{10 \cdot 9} \cdot 2 \frac{9 \cdot 2}{11 \cdot 10} = \left(\frac{7}{10} \cdot \frac{3}{3} + \frac{3}{10} \cdot \frac{7}{9}\right) \left(\frac{9}{11} \cdot \frac{2}{10} + \frac{21}{11} \cdot \frac{9}{10}\right) =$$

$$= \frac{2 \cdot 2 \cdot 2 \cdot 3 \cdot 7 \cdot 2}{3 \cdot 10 \cdot 10} = \frac{2 \cdot 3 \cdot 7}{5 \cdot 5 \cdot 11} = \frac{6 \cdot 7}{11 \cdot 25} = \frac{42}{11 \cdot 25}$$

$$(1) = \frac{12}{11 \cdot 25} + \frac{7}{3 \cdot 11 \cdot 25} + \frac{112}{11 \cdot 25} = \frac{3 \cdot 12 + 7 + 3 \cdot 42}{3 \cdot 11 \cdot 25} =$$

$$= \frac{36 + 7 + 126}{33 \cdot 25} = \frac{169}{825}$$

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$$P = \left(C_3^2 C_5^2 + C_4^1 C_3^1 C_6^1 C_2^1 + C_4^2 C_2^2\right) \left(C_6^2 C_1^2\right)^{-1} = \frac{169}{825}$$