

$$\frac{3}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$$

$$\frac{1}{x} = \frac{1}{x+1} + \frac{1}{x(x+1)}$$

$$\begin{array}{c} \frac{1}{5} \\ | \\ \frac{1}{5} \end{array} \qquad \begin{array}{cc} & \frac{1}{5} \\ & / \quad \backslash \\ \frac{1}{6} & \frac{1}{30} \end{array}$$

$$\begin{array}{ccccccc} & & & \frac{1}{5} & & & \\ & & & / \quad \backslash & & & \\ & & \frac{1}{6} & & \frac{1}{30} & & \\ & & / \quad \backslash & & / \quad \backslash & & \\ \frac{1}{7} & & \frac{1}{42} & & \frac{1}{31} & & \frac{1}{930} \end{array}$$

$$\frac{3}{5} = \frac{1}{5} + \frac{1}{6} + \frac{1}{30} + \frac{1}{7} + \frac{1}{42} + \frac{1}{31} + \frac{1}{930}$$