

$$(x-y)^2 = (y-x)^2$$

$$\begin{aligned} & \left( \begin{array}{ccc} c & c & c^2+4 \\ c-2 & c+2 & 4-c^2 \end{array} \right) \begin{array}{c} (2-c)^2 \\ 2c+c^2 \end{array} = \left( \begin{array}{ccc} c & c & c^2+4 \\ c-2 & c+2 & c^2-4 \end{array} \right) \begin{array}{c} (2-c)^2 \\ 2c+c^2 \end{array} \\ & \left( \begin{array}{ccc} c & c & c^2+4 \\ c-2 & c+2 & (c-2)(c+2) \end{array} \right) \begin{array}{c} (2-c)^2 \\ c(2+c) \end{array} = \left( \begin{array}{c} c(c+2)-c(c-2)+(c^2+4) \\ (c-2)(c+2) \end{array} \right) \begin{array}{c} (2-c)^2 \\ c(2+c) \end{array} \\ & \left( \begin{array}{c} c^2+2c-c^2+2c+c^2+4 \\ (c-2)(c+2) \end{array} \right) \begin{array}{c} (2-c)^2 \\ c(2+c) \end{array} = \left( \begin{array}{c} 4c+c^2+4 \\ (c-2)(c+2) \end{array} \right) \begin{array}{c} (2-c)^2 \\ c(2+c) \end{array} \\ & = \left( \begin{array}{c} (c+2)^2 \\ (c-2)(c+2) \end{array} \right) \begin{array}{c} (2-c)^2 \\ c(2+c) \end{array} = \begin{array}{c} (c+2)^2(2-c)^2 \\ c(c-2)(c+2)^2 \end{array} = \begin{array}{c} (c-2)^2 \\ c(c-2) \end{array} = \begin{array}{c} c-2 \\ c \end{array} \end{aligned}$$