Answer on Question #44572 - Math - Algebra

Show that if y=?(1-x)z, then 1-y=(1-x)(1-z) + x.

Solution.

$$\begin{aligned} &\text{If } y = (1-x)z => \ -y = -\ (1-x)z => 1 - y = -\ (1-x)z + 1 = -\ (1-x)(z-1+1) + 1 = \\ &= -\ (1-x)(z-1) - (1-x) + 1 = -\ (1-x)(z-1) - 1 + x + 1 = (1-x)(1-z) + x. \end{aligned}$$

Answer: if y = (1 - x)z, then 1 - y = (1 - x)(1 - z) + x.