## Answer on Question \#68400 - Math - Differential Equations

## Question

Obtain the partial differential equation by eliminating the arbitrary constant from the relation

$$
u=a x+(1-a) y+b
$$

## Solution

$$
\begin{gathered}
u=a(x-y)+y+b \\
u_{y}^{\prime}=1-a
\end{gathered}
$$

Answer: $u_{y}^{\prime}=1-a$.

