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

## Question

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

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

## Solution

$$u = a(x - y) + y + b$$
$$u'_{y} = 1 - a$$

**Answer:**  $u'_{y} = 1 - a$ .