Random Math

induction-stove

2021

$$x = \int_0^x 1\ dt$$

$$x^2 = \int_0^x 2t\ dt$$

$$y = \int_0^y 1\ dt$$

$$y^2 = \int_0^y 2t\ dt$$

$$x + y = \int_0^{x+y} 1\ dt = \int_0^x 1\ dt + \int_x^{x+y} 1\ dt$$

$$(x+y)^2 = \int_0^{(x+y)} 2t\ dt$$

$$u = 2t$$

$$\therefore \frac{du}{2} = dt$$