



NASSCOM[®]



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³⁾ Consider the partial differential equation, $\frac{\partial^2 u}{\partial x^2} + 2 \times \frac{\partial^2 u}{\partial y^2} = 0$ where $u = g(\frac{x}{y})$. Which ² points of the following is the equivalent ordinary differential equation in g

$$g''(1-2\left(\frac{x}{y}\right)^2) - 4g' \frac{x}{y} = 0$$

$$g''(1+2\left(\frac{x}{y}\right)^2) + 4g' \frac{x}{y} = 0$$

$$g''(1+2\left(\frac{y}{x}\right)^2) + 4g' \frac{y}{x} = 0$$

$$g''(1+2\left(\frac{x}{y}\right)^4) + 4g'\left(\frac{x}{y}\right)^2 = 0$$
No, the answer is incorrect.
Score: 0
Accepted Answers:
$$g''(1+2\left(\frac{x}{y}\right)^2) + 4g' \frac{x}{y} = 0$$

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