









$$\frac{\partial F}{\partial t} = \left[-4 \cos s \sin t \right] - 4 \sin s \cos t + 2 \cos t \right] = \frac{\partial F}{\partial t} \left(\frac{\pi}{2}, \frac{\pi}{16} \right) = \left(-4 \cdot \frac{G}{2}, \frac{1}{2} \right) - 4 \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{13}{2} \right) = \left(-63, -4, 63 \right)$$

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