

$$\begin{aligned}
 F &= \vec{\nabla}\Phi \\
 &= \frac{\partial\Phi}{\partial x}\hat{i} + [\dots] \\
 &= (3x^3 + y)\hat{i} + [\dots]
 \end{aligned}$$

$$\boxed{F = 20\hat{i} + [\dots]} \quad \backslash\boxeded$$

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$\dots = \dots$