

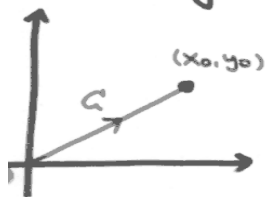
# Calculus: Geometry Analytic (v. 1)

P1

## Calculating potential:

Example:

$$\vec{F}(x,y) = (2x-y)\vec{i} + (-x+2y)\vec{j}$$



$$\begin{aligned} x &= 0 + tx_0 & \frac{dx}{dt} &= x_0 \\ y &= 0 + ty_0 & \frac{dy}{dt} &= y_0 \\ 0 &\leq t \leq 1 \end{aligned}$$

$$\begin{aligned} V(x_0, y_0) &= \int_C \vec{F} \cdot d\vec{R} \\ &= \int_0^1 ((2tx_0 - ty_0)\vec{i} + (-tx_0 + 2ty_0)\vec{j}) \cdot (x_0\vec{i} + y_0\vec{j}) dt \\ &= \int_0^1 (2tx_0^2 - tx_0y_0 - tx_0y_0 + 2ty_0^2) dt \\ &= (x_0^2 - x_0y_0 + y_0^2) \cdot \underbrace{\int_0^1 2t dt}_{=1} \end{aligned}$$

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