

September 21

Physics 310 - Quiz #4

1. The components of a force,
- F
- , are given by

$$\begin{aligned} F_x &= by \\ F_y &= cx \\ F_z &= 0 \end{aligned}$$

What conditions on the constants b and c will make this force conservative?

Conservative if $\nabla \times \vec{F} = 0$

$$\nabla \times \vec{F} = \begin{vmatrix} \hat{i} & \hat{j} & \hat{k} \\ \partial/\partial x & \partial/\partial y & \partial/\partial z \\ by & cx & 0 \end{vmatrix} = \hat{k}(c - b) = 0$$

if $c = b$

2. A particle of mass
- m
- is subjected to a force that is described by the potential energy function

$$V(r) = \frac{(x-a)(y-b)}{\sqrt{(x-a)^2 + (y-b)^2}}$$

If the velocity of the particle was v_0 when it was located at a position $r = a\hat{i}$, what will its velocity be after it has moved to the new position $r' = b\hat{j}$?

Initial potential energy is

$$V(a\hat{i}) = 0$$

Final potential energy is

$$V(b\hat{j}) = 0$$

So initial and final kinetic energies are equal so $v_f = v_0$.

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