

20-P-WE-AF-014

Conservative Forces: Advanced

Q: If  $F = (Ax^2, B, C\cos(z))$ , what is the del  
at point  $(D, E, F)$ .

A:  $\frac{d}{dx} Ax^2 = 2Ax \Rightarrow 2AD$

$\frac{d}{dy} B = 0$

$\frac{d}{dz} C\cos(z) = -C\sin(z) \Rightarrow -C\sin(F)F$