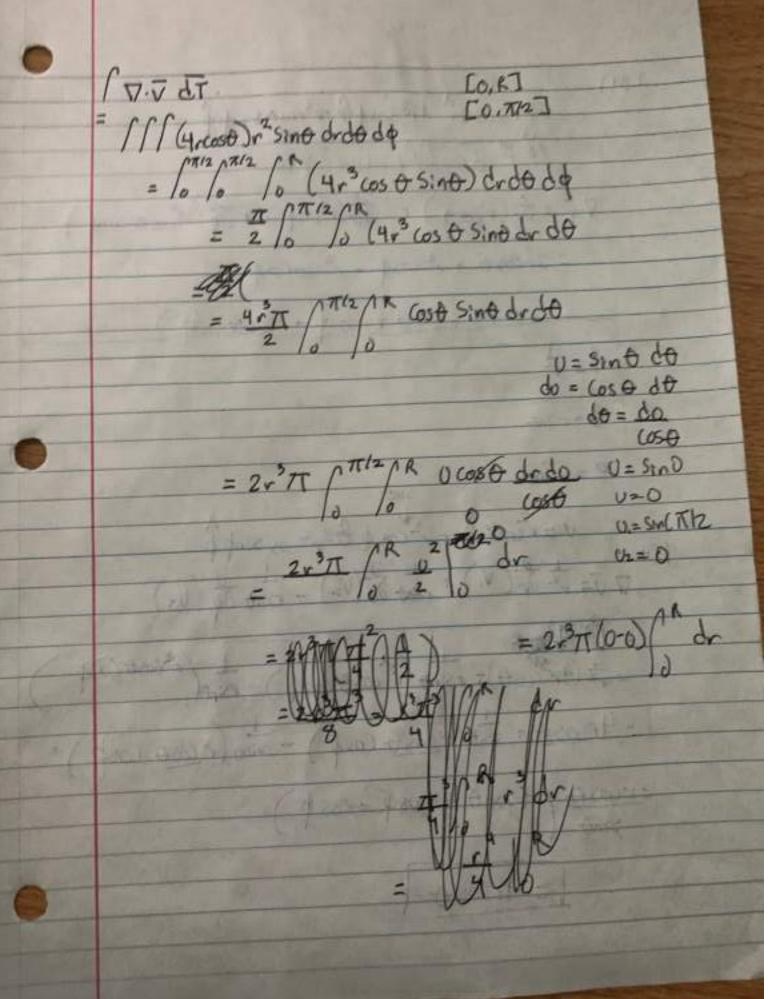
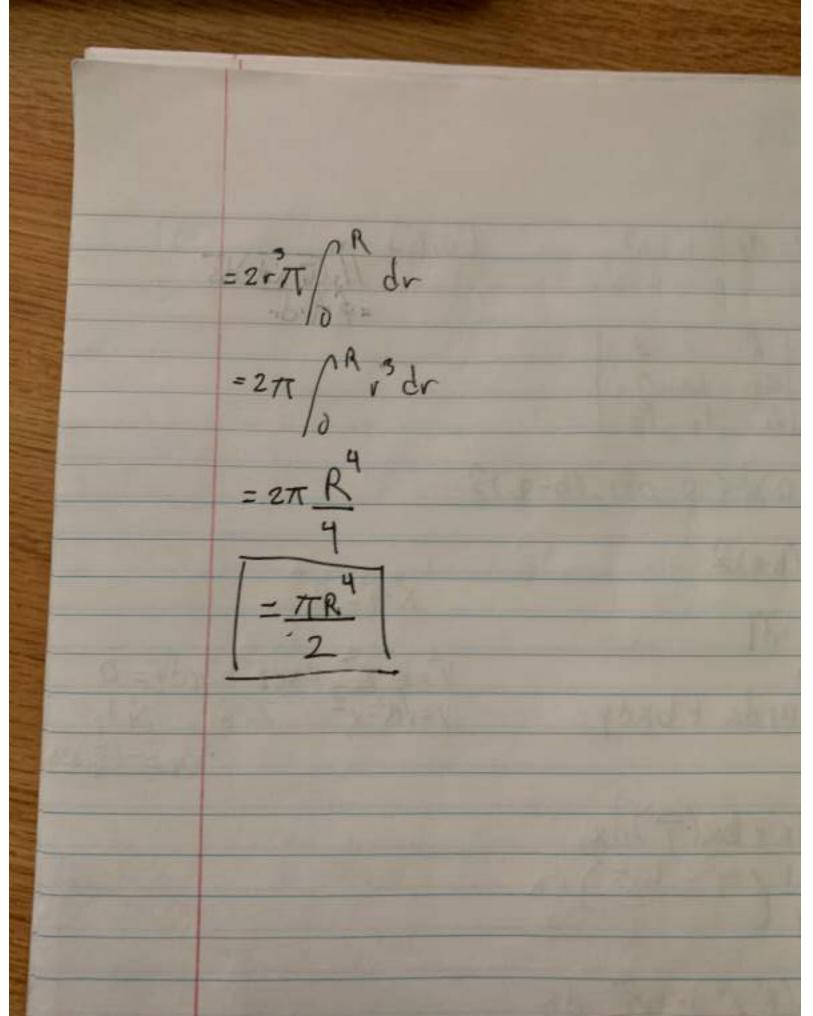
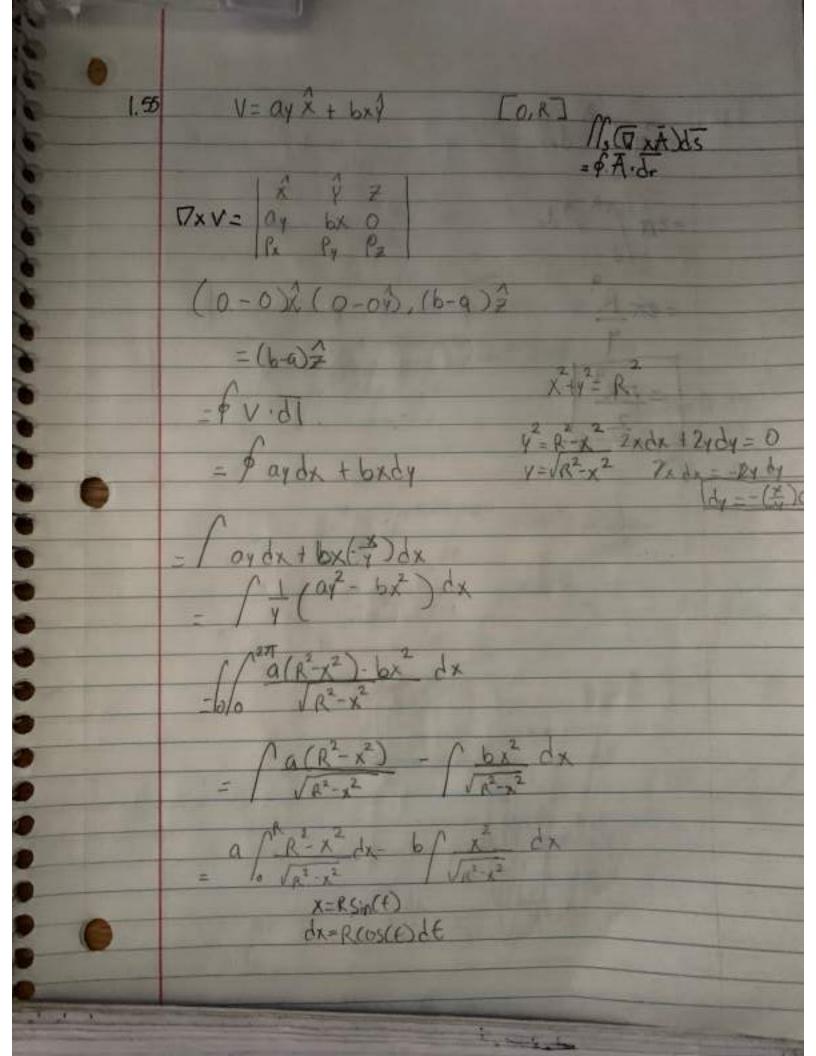
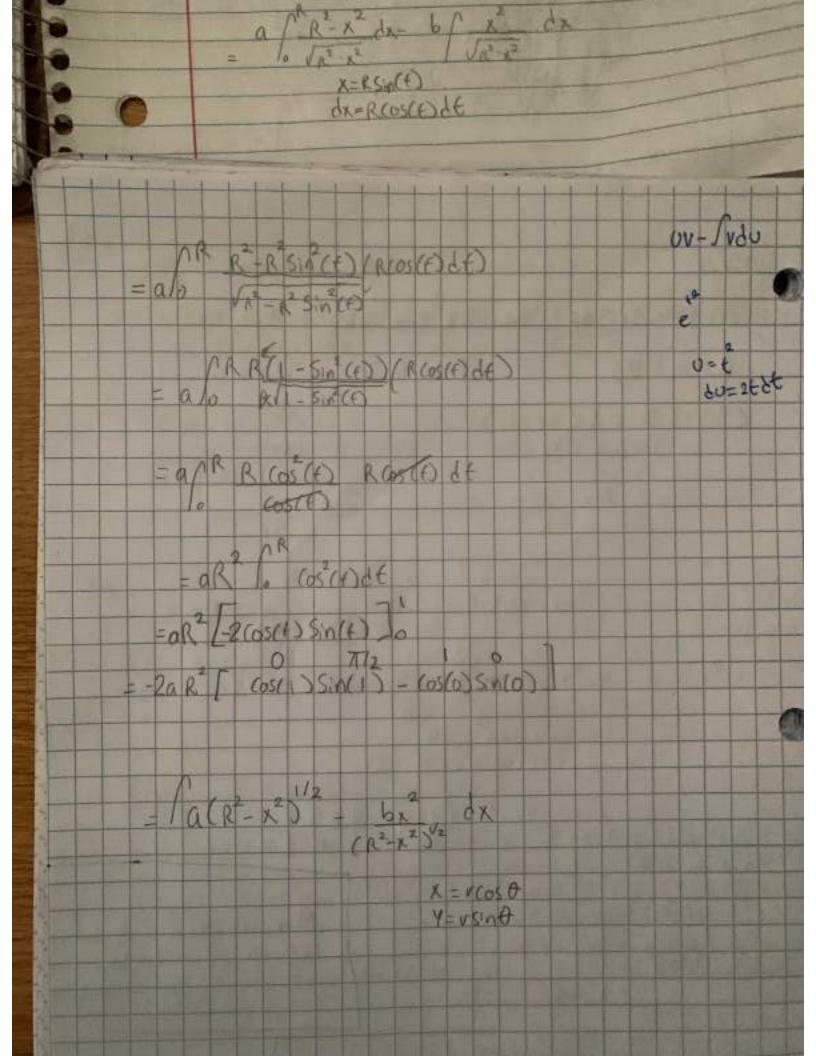
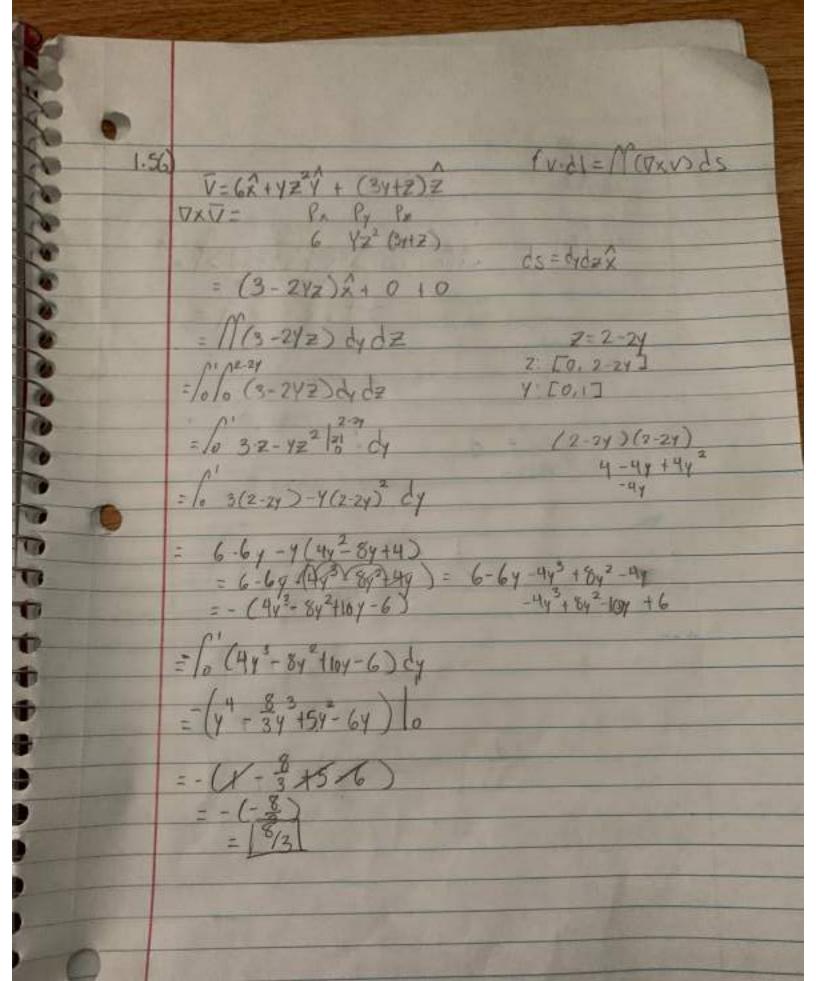
1.54) V= r2cosor + r2 cos + &-v2coso sin \$ \$ F. Js= // div(F) dv V.v = Si (vicoso) + Do (vicoso) = Jo (vicoso sino) = 2 r cos + + 2 cos + - 2 cos + cos + = r(2 cost + rcost - rcost cost 中三十 V = 2 cos + 2 cos + 2 cos sinp p V.V= +2 dr (Vi) + sino do (V2) - rsino do (Vs) = 1 (42 cost) + rs:no (2 cost cost) - rs:no (2 cost cost) = 4rcoso + sino (rcoso coso) - sino (rcoso coso) = r cos + (4 5) + cos + cos + = 4rcos-0

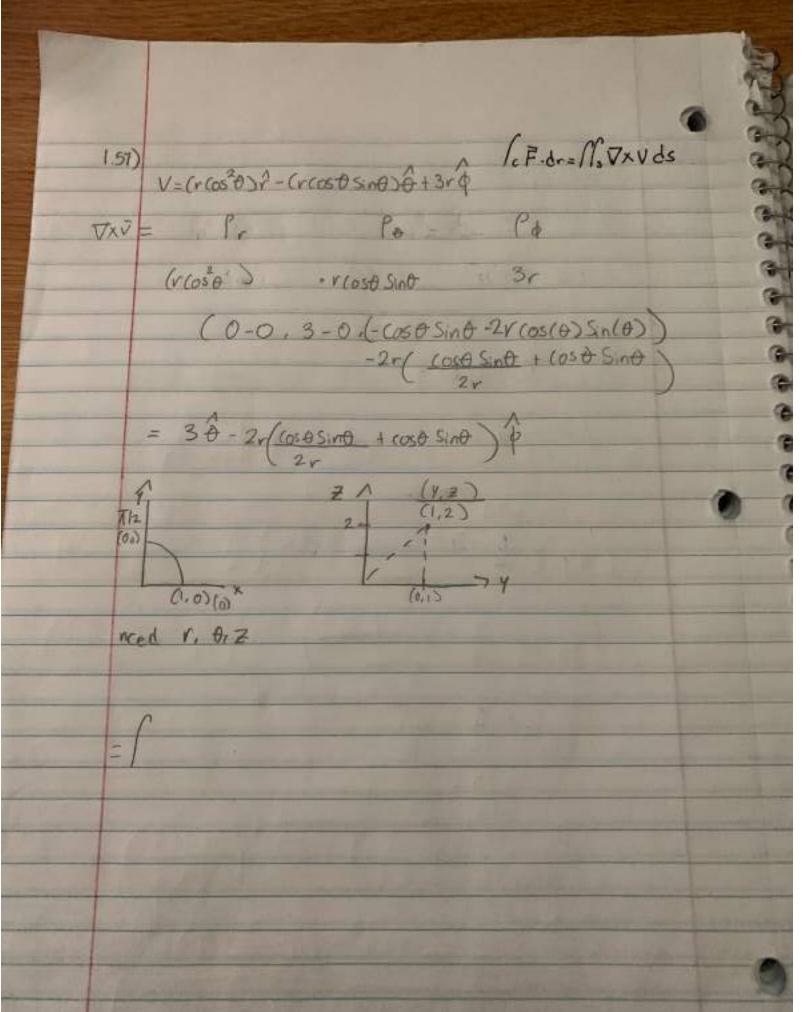


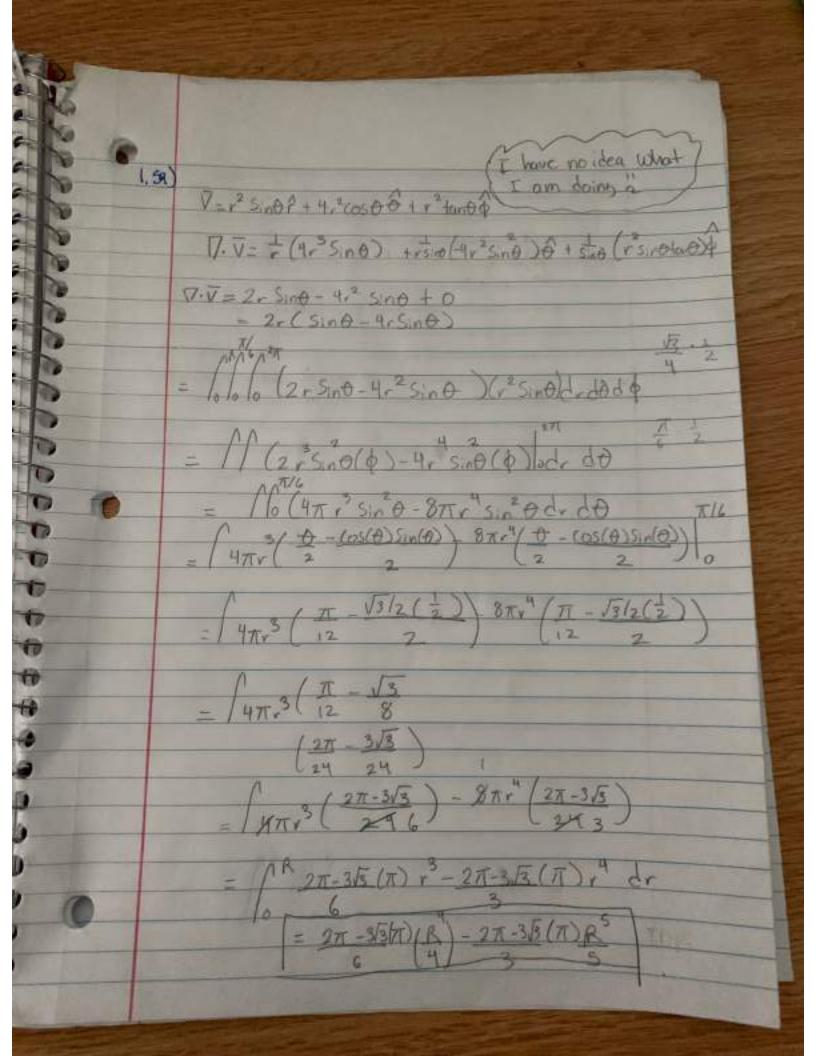


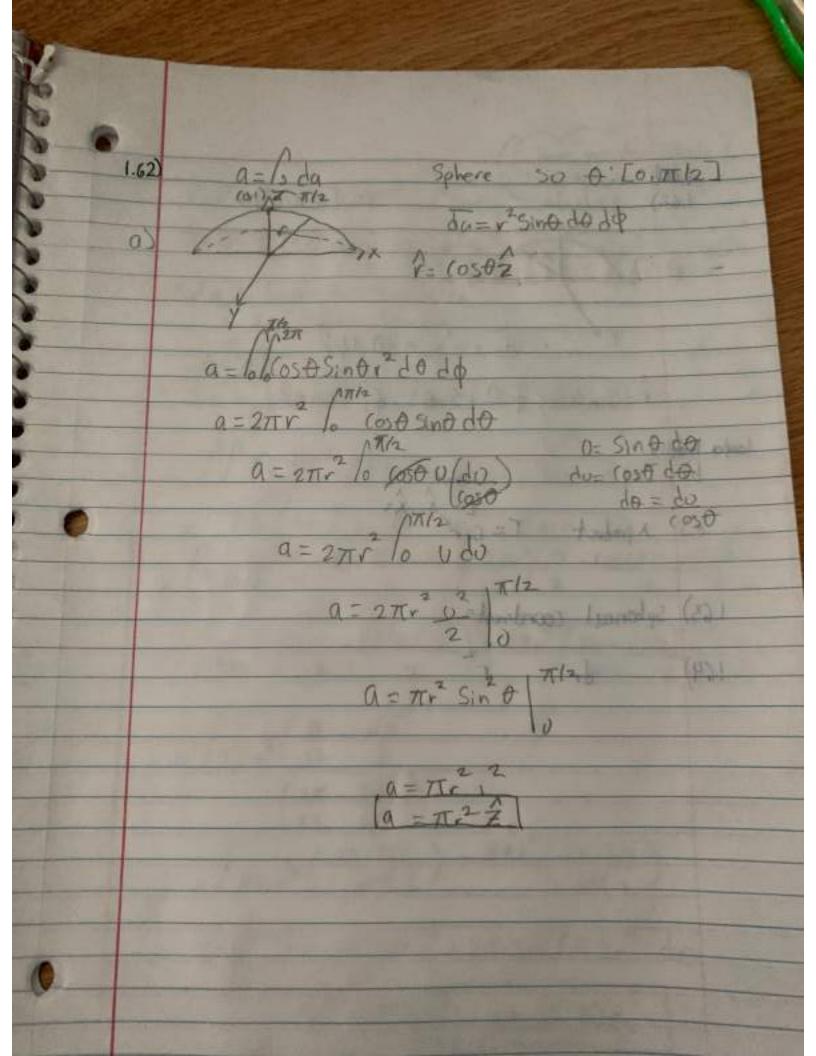












6) Parc = VT= V(E.F)

1.63) V=£ $r = \sqrt{x^2 + y^2 + z^2}$ d1=dxx +dy9+dz2 V=V 17V = Px x + Pyy + P=2 Px = (x2142+2) 1/2 = (x2+12+2) (2x f v = ((R sin d d d d f) = (o sind do) (6 do) = 4 T 7x(rr) = 2 2r(rr) = 2 2(r+2) $= \frac{1}{r^2} (n+2) r^{-1} = (n+2) r^{-1}$ 7. (=)=4786(V)

(VXV) = 0 = -6 VX da V= v r da = R2 SIND dody r V xda = (V V) x (R smo dodo) Vada=0