3) $S = \frac{c}{2\pi i} |E|^3 \pi =$ $\frac{c^2}{4\pi c^3 R^2} |n \times z n \times \dot{v} J J|^2 = \frac{c^2}{4\pi c^3 R^2} \sqrt{-s_i n^2 6}$ E 27 ph = 470 Q (++ dE,) 20 (r+ dr) h = 411 SpdV Freder (r+ do) h = 411 (Q+ dQ) d (En) 2716 = 41 20 $dQ = 2\pi r dr \cdot h - D$ $1 dEn) = 4\pi g - VE = V(\nabla \cdot \varphi) = \Delta \varphi = \frac{1}{r} dr (r dr)$ 1 dr (r dr) 1 dr (r dr) 1 dr (r dr)The state of the 9 b 5 + 6 5 965 + 955

V × 1 - - + V (R - V2) × V + - (R - V2) (P × V) VXA- {(e(VXV) - VX(Ve) Vy 11 VXV def Conce Cohen VXV = = +XVE, -V. VE, DX V×1=- { (+ (V× V6) p + V × (vq)) Vt u Vg un novuman & marce Vy = - & 3 (n x + V - nx I R v - v2 J) Rogensbure:

R J3 X [R V) V +

C C3R3 J8 X [R V) V + $-(c^{2}-\sqrt{2})(cn-7)J=-\frac{1}{c^{2}}\frac{n}{c^{3}R^{2}}+\frac{1}{2}$ XT CRV - V(RV) + V/RV) 3+(4-13/6n-1) = - 1 n x3 + x [c R V + (c - V 2 (c - V) + R x [V x V]]





