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(2) Find the values of a,b, c so that the

tract vector field too. A= (x+2y+az) x+ (6x-3y-2)3 + (4x+cy+2z) 2 is irratational.

[Him. TXX = 0 ton innotational field]

- (3) Show that  $\vec{A} = (2\pi y + z^3)\hat{n} + \chi^2 \hat{g} + 3\pi z^2 \hat{z}$ in a conservative field.
  - [ Hinh: For compensation field \$\overline{A}\, \overline{A}\, \ove
- (4) find a unit vector normal to the nuntaee  $\theta = 2x^2 + 4y^2 - 5z^2 - 5 = 0$  at a point P(3,-1,2)EHINTS: TO -> direction is I' to the surfaced)