

H. W for Class - 12B

Date - 15/5/2020

Physics

- 1- How do you find the electric potential energy of three charges?
- 2- How do you calculate electric potential energy?
- 3-Where does electric potential equal zero?
- 4-Can electric potential be zero if electric field is not zero?
- 5-Why is electric potential energy negative?
- 6-A) Electric potential at any point x, y, z in the space is given $V=4x^2-3x$

Question 1

Find the electric field at any point (x, y, z)

- (a) $(8x - 3)\mathbf{i}$
- (b) $-(8x - 3)\mathbf{i}$
- (c) $-8x\mathbf{i}$
- (d) $8x\mathbf{i}$

7- If I placed an second uniformly charge shell (Q) at radius $R' > R$, will the value of potential change at $r < R$

- a. increases
- b. decreases
- c. constant
- d. none of the above