

Homeowrk 3

Due: 2012 October 19

15. Problem 2.21

16. Problem 2.26

17. Problem 2.28

18. Problem 2.32

19. The Yukawa potential is given by

$$V = \kappa \frac{e^{-\alpha r}}{r} \quad (1)$$

where  $\kappa$  and  $\alpha$  are constants. Find the energy for the charge distribution responsible for the Yukawa potential.

20. Problem 2.47

21. Problem 2.48