6) Answer the following questions:

1. If r2 = 0.95, n = 11 and the  = 100, what is or ?
2. If r2 = 1, then  in (1a) can be shown to have what type of relationship with SST and SSR?
3. What relationship exists between and Y where r2 = 1?
4. What relationship exists between and Y where r2 = 0?
5. Given the following information: r2 = 0.95, n = 10 and k =2 what is the t-value for b1?
6. In (e), you calculated t-value at the 0.05 level of significance; what statistical decision can you make about b1?