Suggested problems 4

STA 213

These are the solutions only for the odd numbered problems. For the even numbered problems look on DeGroot.

page 246

5. $\frac{21}{8}$

page 251

7. Hypergeometric distribution with parameters n_1, n_2 and k.

page 257

11. 0.1992

13. 0.5940

page 262

1. (a) 145 (b) 4350

page 272

1. (a) 0.8413 (b) 0.4013 (c) 0 (d) 0.2858 (e) 0.6915 (f) 0.2426 (g) 0.6247 (h) 0.4599

7. 0.9876

page 281

1. 0.0227

page 292

9. Mean $\frac{\mu}{n}$, variance $\left(\frac{\mu}{n}\right)^2$.

17. If $X \sim Exp(\lambda)$, then $h(x) = \lambda$ for $x > 0$.

page 392

5. (a) 0.94 (b) 0.914