EDMS 646: Homework 2

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Part 1: Correlation

1.

2.

3.

4. How to write Mathematics

   LaTeX is great at typesetting mathematics. Let $X_1, X_2, \ldots, X_n$ be a sequence of independent and identically distributed random variables with $\mathrm{E}[X_i] = \mu$ and $\mathrm{Var}[X_i] = \sigma^2 < \infty$, and let

   $$S_n = \frac{X_1 + X_2 + \cdots + X_n}{n} = \frac{1}{n}\sum_{i}^{n} X_i$$

   denote their mean. Then as n approaches infinity, the random variables $\sqrt{n}(S_n - \mu)$ converge in distribution to a normal $\mathcal{N}(0, \sigma^2)$.

5.

Part 2: Simple Regression

1.

2.

3. blah blah
   (a) Like this,
   (b) and like this.
   (c)

4.

5.

6. mhmb
   (a)
   (b)
   (c)
   (d)
   (e)
   (f)
   (g)
   (h)
   (i)

7. geez
    (a)
    (b)
    (c)
    (d)

Part 3: ANOVA Table

1.