HW6 Sols

MATH 358/658 Assignment 6

Due March 7. Hand in to my mailbox if you are leaving town early for the break.

• Page 416 #6

- (0 Pts) Page 416 #7 By "consistent", they mean that the Bayes Estimator converges in prob-
 - Page 416 #12
 - Page 472 #2
 - Page 472 #4
 - Page 472 #5
 - Page 472 #6
 - Page 472 #12

+ 2 ; f prope 80+ 416 #7 correct, but it's worth o Auril.

$$E(O(x) = \frac{\alpha + \xi xi}{\beta + v}$$

#7 (10ts of soldions I gress, here's the simplest) $\hat{\Theta} = E(\Theta(x) = (1-8\pi) M_0 + 8\pi \cdot \overline{X}$ $\lim_{n \to \infty} \hat{\Theta} = \overline{X} \quad \text{Since lim } 8\pi = 1$

By LLM, X => E(x) = 0.

munitors will alvers differ by only 2 1003 (1)

$$E_{1}(4) = -\frac{5}{5} \cdot \times \qquad 6 \qquad + 6 \qquad (\frac{5}{m^{2}} - 1) \cdot \times = 0$$

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$$8[X_5^2 = 9] = .99 = \frac{9}{9} = \frac{9}{9} = \frac{3.0348}{9}$$

6.435 \$ =
$$\frac{1}{200}$$

= $\frac{1}{200}$

$$\frac{x^2}{26^2} + \frac{x^2}{26^2} + \frac{2}{26^2} + \frac{2}{3}$$

$$|\nabla f + |\nabla f| = |\nabla f + |\nabla f| = |\nabla f|$$

0.665 0.08