Problem 4	
(i) Matlab: output of 95% confidence interval of $\mu_1 - \mu_2$ : $5.7183$ , $7.3383$	
(1) Matlab: output of 95% confidence interval of $\mu_1 - \mu_2$ :	
By hand, 0507 confidence internal of u 4.1866, 7.8155	
which formula did you use: $\frac{1}{2}\mu x - \mu y = (\bar{x} - \bar{y}) \pm (\partial_{1} (n_{1} + n_{2} - z)) \cdot S \sqrt{\bar{n}}$ ,	ne
(ii) Matlab: reject $H_0$ ? :	
By hand: $TS = \frac{6.915}{\text{and } C} = \frac{(-\infty, -7.09) \cup [7.09.00)}{\text{reject } H_0?} : \frac{1}{2} = $	
Problem 5 OK .	
With such 1000 (95%) confidence intervals, around 50 such intervals do not containing the real val	lue $p$ .
(i) For $Bin(16, 0.3)$ , find $np =n(1-p) =n$	
The number of intervals not containing the real value $p:$	
(ii) For $Bin(80, 0.3)$ , find $np = 100$ $np = 100$ $np = 100$	
The number of intervals not containing the real value $p:$	
(i) Does the plot of $x$ and $y$ look like a line?	7
(ii) What is the estimated regression line? $3 = 33.8282 + 10.7410 \times$	640
(iii) Standard errors of the coefficients: $s_{\hat{\beta}_0} = 2.26/8$ and $s_{\hat{\beta}_1} = 0.6763$	_
(vi) $TS = \dots 17.15$ and $C = (-\infty, -2.575) \cup [7.575, \infty)$ , reject $H_0? : Ves(.7545)$	(c)
(v) Do you think $\varepsilon_j \sim N(0, \sigma^2)$ ?	
Problem 7 $\beta(x) = \frac{e^{16.3776 - 0.7508 \times 0}}{1 - 1 e^{16.3276 - 0.7508 \times 0}}$ OK	
(i) What is the estimated logit function?	
(ii) $TS = -7.5010$ and $C = (-0.7.16) \cup (1.66.00)$ reject $H_0$ ?: $1/60$	

(iii)  $\hat{p}(65) = ....$  3.