Some Notes About the Homework

- If you want to go over the homework in detail, figure out the source of a coding error, etc. email me and we can go through it or you can email me.
- Adding more terms to a model will always make the confidence interval increase
- For models with more than one term (i.e. the model with a linear and a squared term) you have to add the coefficients together to calculate the change in Y for a for a one-unit increase in X.
- "Coefficient":

```
> summary(glm(Survived ~ Age + Sex, family=binomial(link='logit'),data=train))
Call:
glm(formula = Survived ~ Age + Sex, family = binomial(link = "logit"),
    data = train)
Deviance Residuals:
   Min
             1Q Median
                                      Max
                          3Q
-1.7405 -0.6885 -0.6558 0.7533
                                   1.8989
Coefficients:
            Estimate Std. Error z value Pr(>|z|)
(Intercept) 1.277273
                       0.230169 5.549 2.87e-08 ***
           -0.005426
                       0.006310 -0.860
Age
                                           0.39
           -2.465920 0.185384 -13.302 < 2e-16 ***
Sexmale
Signif. codes: 0 '*** 0.001 '** 0.01 '* 0.05 '.' 0.1 ' ' 1
(Dispersion parameter for binomial family taken to be 1)
   Null deviance: 964.52 on 713 degrees of freedom
Residual deviance: 749.96 on 711 degrees of freedom
  (177 observations deleted due to missingness)
AIC: 755.96
Number of Fisher Scoring iterations: 4
```