4.2 Review Questions ☐ Bookmark this page

Enter the value of Balance below:

 $\log\left(\frac{p(X)}{1-p(X)}\right) = \beta_0 + \beta_1 X. \quad \boxed{\text{Intercept}}$

✓ Answer: 1936.6

Using the model on page 8 of the notes, what value of Balance will give a predicted Default rate of 50%? (within 3 units of

balance

 $(\log(0.5 \div (1 - 0.5)) - (-10.6513)) \div 0.0055 =$

1,936.6

Coefficient

-10.6513

0.0055

1936.6

1936.6

4.2.R1

accuracy)

1/1 point (graded)

Explanation

We know that logit(.5) = $\beta_0 + \beta_1$ *Balance. Thus, Balance = $(logit(.5) - \beta_0)/\beta_1 = (log(.5/(1-.5)) + 10.6513)/.0055 = 1936.6$