We have
$$P(X) = \frac{e^{Bo+\beta_1 X}}{1+e^{\beta_0+\beta_1 X}}$$

$$\frac{P(X)}{1-P(X)} = \frac{e^{B_0 + \beta_1 X}}{1+e^{\beta_0 + \beta_1 X}} = \frac{e^{\beta_0 + \beta_1 X}}{1+e^{\beta_0 + \beta_1 X}}$$

$$\frac{P(X)}{1-P(X)} = e^{\beta_0 + \beta_1 X}$$

$$\frac{P(X)}{1-P(X)} = e^{\beta_0 + \beta_1 X}$$