$$\ell = \log_b\left(\frac{p}{1-p}\right) = \beta_0 + \beta_1 x_1 + \cdots + \beta_n x_n$$

$$\implies \quad b^{\log_b\left(\frac{p}{1-p}\right)} = b^{\beta_0+\beta_1 x_1+\cdots+\beta_n x_n}$$

$$\implies \quad \frac{p}{1-p} = b^{\beta_0} \cdot b^{\beta_1 x_1} \ldots b^{\beta_n x_n}$$