Solution of Homework #1

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1 Problem 3.2

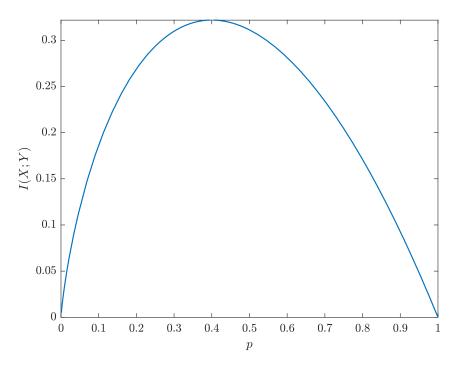


Figure 1: Mutual information as a function of $p \triangleq p_X(1)$