Tuesday Oct 1, 2024

Name:

Discuss and complete the following questions with the person nearest you. You **may** be asked to share your thoughts with the class.

1. If you could only read one book for the rest of your life, what would that book be?

2. Recall, entropy is expressed as:

$$H(X) := -\sum_{x \in X} p(x)\log_2(x)$$

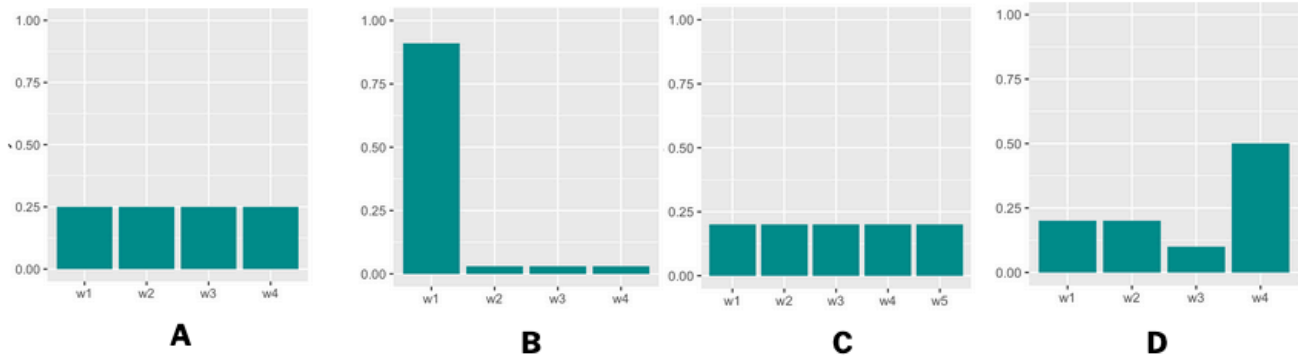Give the entropy for the following distributions where X is $\{w_1, w_2, w_3, w_4\}$

Figure 1: Distributions