

Let  $X$  and  $Y$  be independent random variables with the following distributions:

Let  $X$  and  $Y$  be independent random variables with the following distributions:



**Problem 1**  
Let  $X$  and  $Y$  be independent random variables with the following distributions:

**Problem 2**  
Let  $X$  and  $Y$  be independent random variables with the following distributions:

**Problem 3**  
Let  $X$  and  $Y$  be independent random variables with the following distributions:

**Problem 4**  
Let  $X$  and  $Y$  be independent random variables with the following distributions: