

## D116 Quiz 5

Name: \_\_\_\_\_

1. A fair coin is flipped 2 times. A random variable  $X$  is defined as the number of heads minus the number of tails. Find the density function of  $X$  by completing the following table.

Event	Value of $X$	Probability
No heads	-2	$C(2, 0)(1/2)^0(1/2)^2 = 1/4$
One head	0	$C(2, 1)(1/2)^1(1/2)^1 = 1/2$
Two heads	2	$C(2, 2)(1/2)^2(1/2)^0 = 1/4$

◇ END OF QUIZ ◇