

Name \_\_\_\_\_ Discrete II, Spring 2017, Quiz 2

1) Find the number of solutions to the equation below, where each  $x_i$  is a nonnegative integer.

$$x_1 + x_2 + x_3 + x_4 + x_5 + x_6 + x_7 = 48$$

1) Given a standard deck of playing cards, what is the probability of drawing a 4-of-a-kind? A 4-of-a-kind consists of 4 of the same card, and one other card, such as JJJQ.