Math 3160 Quiz 1 September 3, 2021
(1) Suppose a license plate must consist of 6 numbers or letters. How many license plates are there if
(a) there can only be letters?
(b) the first three places are numbers and the last three are letters?
(c) the first three places are numbers and the last three are letters, but there can not be any repetitions in the same license plate?
(2) Suppose there are 5 black pens and 3 red pens. How many ways can we choose 3 pens, if we need at least one of each color?
Extra credit question: write the numerical answer in (2)

