## MATH 3012, Quiz 1

## May 22, 2013

Name:	GTID:
· ,	ions are there to $x + y + z + w = 17$ ? solutions are there to $x + y + z + w = 17$ ?
<b>Problem 2</b> (2 points). How many lattice paths from (2, 5)	to $(10, 15)$ do $not$ pass through $(8, 10)$ ?

## Problem 3 (1 points).

Consider the 16-element set consisting of the ten digits  $\{0, 1, 2, ..., 9\}$  and the six capital letters  $\{A, B, C, D, E, F\}$ . How many strings of length 9 can be formed using exactly two 6's, three B's and four D's?