Show that the differential form under the integral sign of  $I = \int_{(-1,5)}^{(4,3)} (3z^2 dx + 6xz dz)$  is exact, so that we have independence of path in any domain, and find the value of the integral I from A(-1, 5) to B(4, 3). [97 中央機械丁光電甲 4]