Quiz 6

Sr:

Q 1 [5 points]: Use eigenvalues and eigenvectors to solve the system of ordinary differential equations:

ID:

$$x'(t) = x(t) + 3z(t), \quad y'(t) = y(t), \quad z'(t) = 2z(t).$$
 (1)

Name:

Q 2 [5 points]: Use eigenvalues and eigenvectors to find f and g satisfying:

$$f'(x) = 12f(x) - 9g(x),$$
  
 $g'(x) = 4f(x).$