```
J = theta * x
  dtheta = x
  theta_plus = theta + epsilon
  theta minus = theta - epsilon
  cost_plus = forward_propagation(x, theta_plus)
  cost_mines = forward_propagation(x, theta_minus)
  gradapprox = (cost plus - cost mines)/(2*epsilon)
  grad = backward_propagation(x, theta)
  numerator = np.linalg.norm(grad - gradapprox)
  denominator = np.linalg.norm(grad) + np.linalg.norm(gradapprox)
  difference = numerator/denominator
    theta_plus = np.copy(parameters_values)
    theta_plus[i] = theta_plus[i] + epsilon
    J_plus[i],_ = forward_propagation_n(X, Y, vector_to_dictionary(theta_plus))
    theta minus = np.copy(parameters values)
    theta_minus[i] = theta_minus[i] - epsilon
    J_minus[i],_ = forward_propagation_n(X, Y, vector_to_dictionary(theta_minus))
    gradapprox[i] = (J_plus[i] - J_minus[i])/(2*epsilon)
  difference = np.linalg.norm(grad - gradapprox)/(np.linalg.norm(grad) +
np.linalg.norm(gradapprox))
```