2-11 (2) = 1/2 vectorization.

X= [xa x'' -- x'] Y=[x'' x'' -- x'']

2= [zw zw. - zm]= NTX+(bb-b) 2= np.dot(wT,X)+b

A=[04-00] Y=[y4,--y6m] dz=A-Y

2.15 Broadcasting

Use ref. random. randne (1,5) but not nf. random. randne (5)

Can use rechape to set the dim of the matrix.

The figure cost function

The y=1 = PCY(X) = A

The y=20 = PCY(X) = L

PCY(X) = A

PCY(X) = A

PCY(X) = A

PCY(X) = A

PCY(X) = B

PCY(X) = B

PCY(X) = B

PCY(X) = B

PCY(X) = L

PCY(X)

36 18 42 Color Stand function:  $a = 1 + e^3$ A = tanh (2) =  $e^2 = e^3$  (beeter) [1]

Relw: a = mox(0, 2) [1]