Backpropagation: a simple example f(x,y,z) = (x+y)ze.g. x = -2, y = 5, z = -4q = x + yChain rule:

$$f = qz \qquad \frac{\partial f}{\partial q} = z, \frac{\partial f}{\partial z} = q$$

$$\text{Chain rule:}$$

$$\frac{\partial f}{\partial x} = \frac{\partial f}{\partial q} \frac{\partial q}{\partial x}$$
Want: $\frac{\partial f}{\partial x}, \frac{\partial f}{\partial x}, \frac{\partial f}{\partial x}$