CSE

UTA

- Consider the expression:

- $$f(x,y) = (x * y) * \min\left(\frac{x}{y}, x\right)$$

Given the inputs: $x = 20$ and $y = 2$

Draw the computational graph and calculate the $\frac{\delta f(x,y)}{\delta x}$ and $\frac{\delta f(x,y)}{\delta y}$

You must show all the forward values and backward **partial derivatives for each node** in the graph and compute numerical values of the partial derivatives with respect to x and y

Blue: Forward pass   Yellow: Local derivative   Red: Backward pass