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Basics of Neural Network — Programming — Computation Graph

Computation Graph

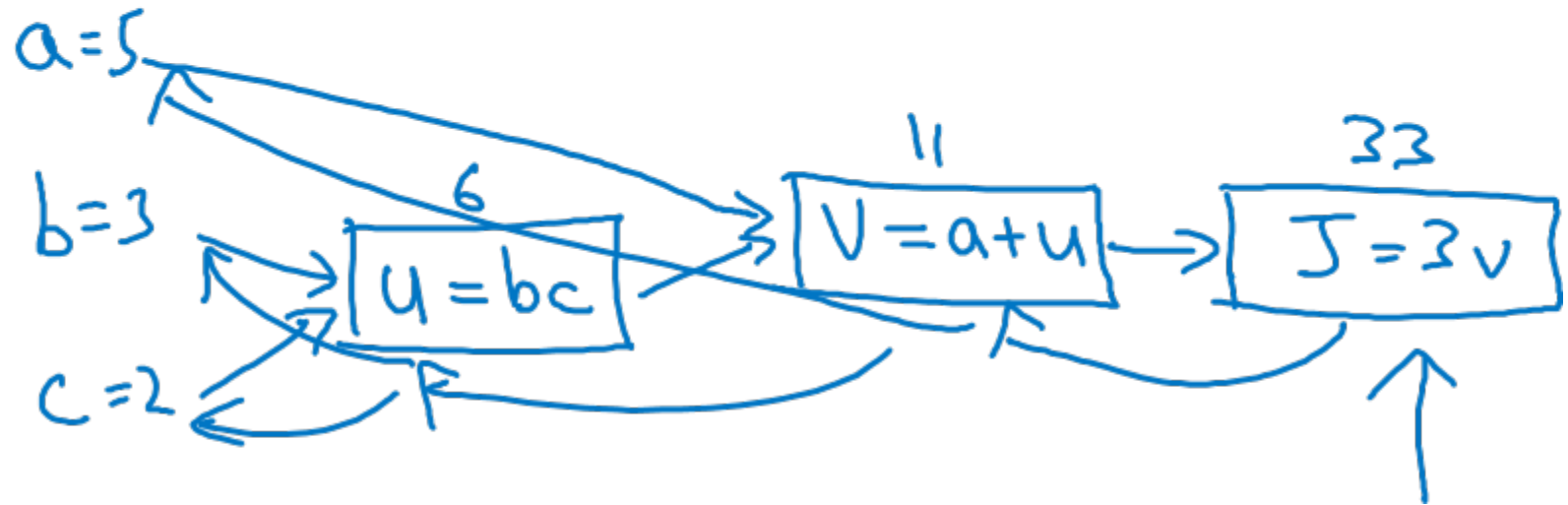
$$J(a,b,c) = 3(a + \underbrace{bc}_u) = 3(5 + \underbrace{3 \times 2}_v) = 33$$

$\underbrace{\hspace{1.5cm}}_J$

$$u = bc$$

$$V = a + u$$

$$J = 3v$$



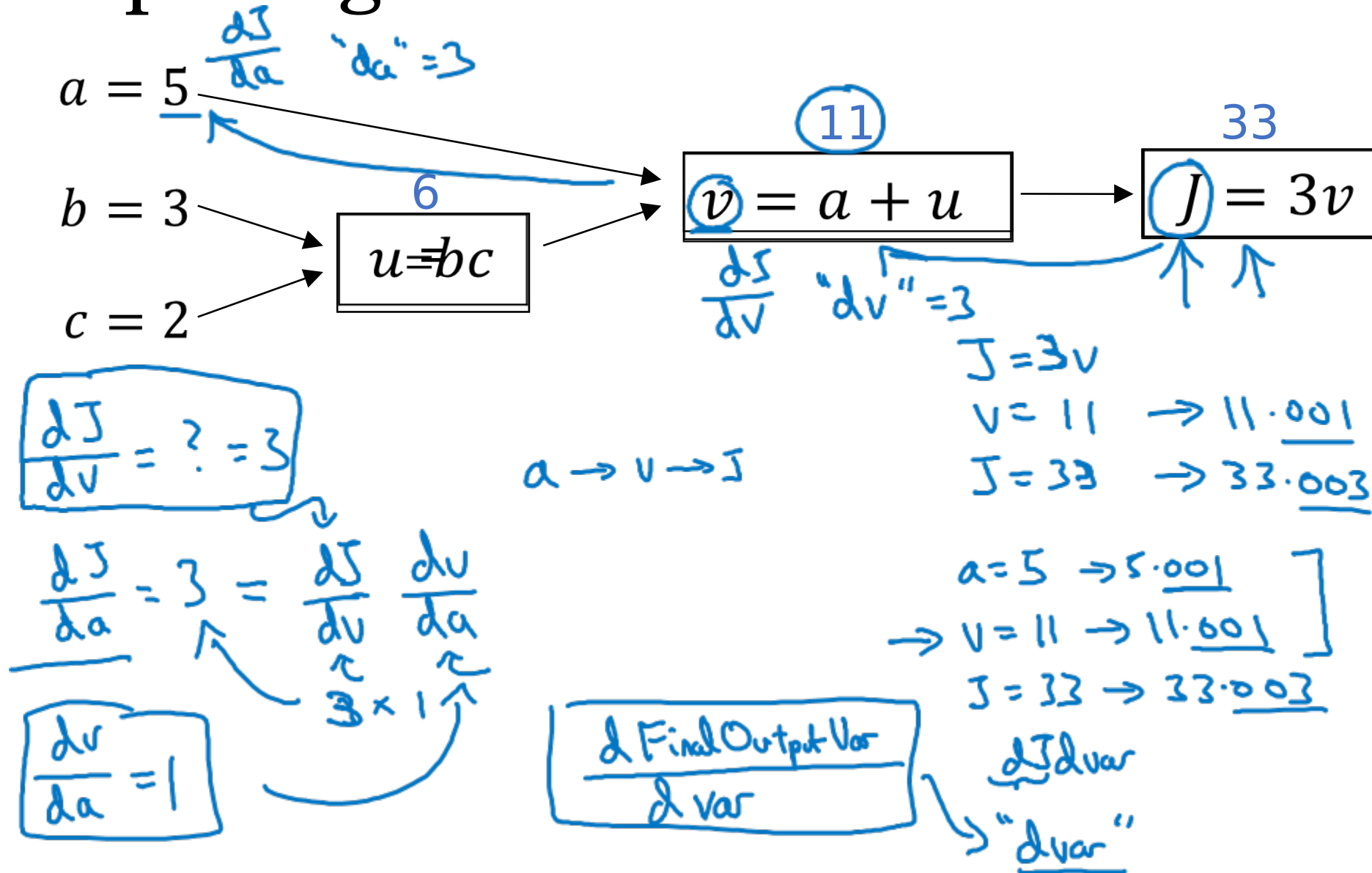


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Basics of Neural Network

Programming
Derivatives with
a Computation
Graph

Computing derivatives



$$f(a) = 3a$$

$$\frac{df(a)}{da} = \frac{df}{da} = 3$$

$$J = 3v$$

$$\frac{dJ}{dv} = 3$$

Computing derivatives

