

April 29th

$$\text{If } x \$ y = xy + x + y \quad \text{and} \quad 3 \$ 5 = 2 \$ w$$

Find w

$$3\$5 = 3 \times 5 + 3 + 5 = 23$$

$$2\$w = 2 \times w + 2 + w$$

Hence

$$2w + 2 + w = 23$$

$$3w = 21$$

$$\mathbf{w = 7}$$