

## Joint-Product Costing

$p_A := 98$	Selling price product A
$p_B := 107$	Selling price product B
$x_A := 2100$	Quantity of goods produced and quantity of goods sold A
$x_B := 4000$	Quantity of goods produced and quantity of goods sold B
$C := 566885$	Joint costs

### Residual value method

*Product A = Main product*

$$c_A := \frac{C - p_B \cdot x_B}{x_A} \quad \text{Cost per unit product A}$$

$$c_A = 66.136$$

$$c_B := p_B \quad \text{Cost per unit product B}$$

$$c_B = 107$$

*Product B = Main product*

$$c_B := \frac{C - p_A \cdot x_A}{x_B} \quad \text{Cost per unit product B}$$

$$c_B = 90.271$$

$$c_A := p_A \quad \text{Cost per unit product A}$$

$$c_A = 98$$

### Proportional value method

$$c_A := \frac{C}{p_A \cdot x_A + p_B \cdot x_B} \cdot p_A \quad \text{Cost per unit product A}$$

$$c_A = 87.653$$

$$c_B := \frac{C}{p_A \cdot x_A + p_B \cdot x_B} \cdot p_B \quad \text{Cost per unit product B}$$

$$c_B = 95.703$$