

16-2

55 km% etanol - 55 km% butanol 1 kg/s

$$\dot{m}_V = 0,93 \text{ kg/s}$$

$$\dot{m}_L = 0,57$$

$$y = z - \frac{m_L}{m_V} (x - z_F)$$

$$y' = z' - \frac{m_L}{m_V} (x' - z_F')$$

$$\text{sklonice} - \frac{m_L}{m_V} = -\frac{0,57}{0,93} = -1,326 = -\frac{5,302}{4} = \frac{\Delta y}{\Delta x}$$

$$x = 0,295$$

$$z = 0,66$$

Destilát: 66 km% etanol, 34% butanol

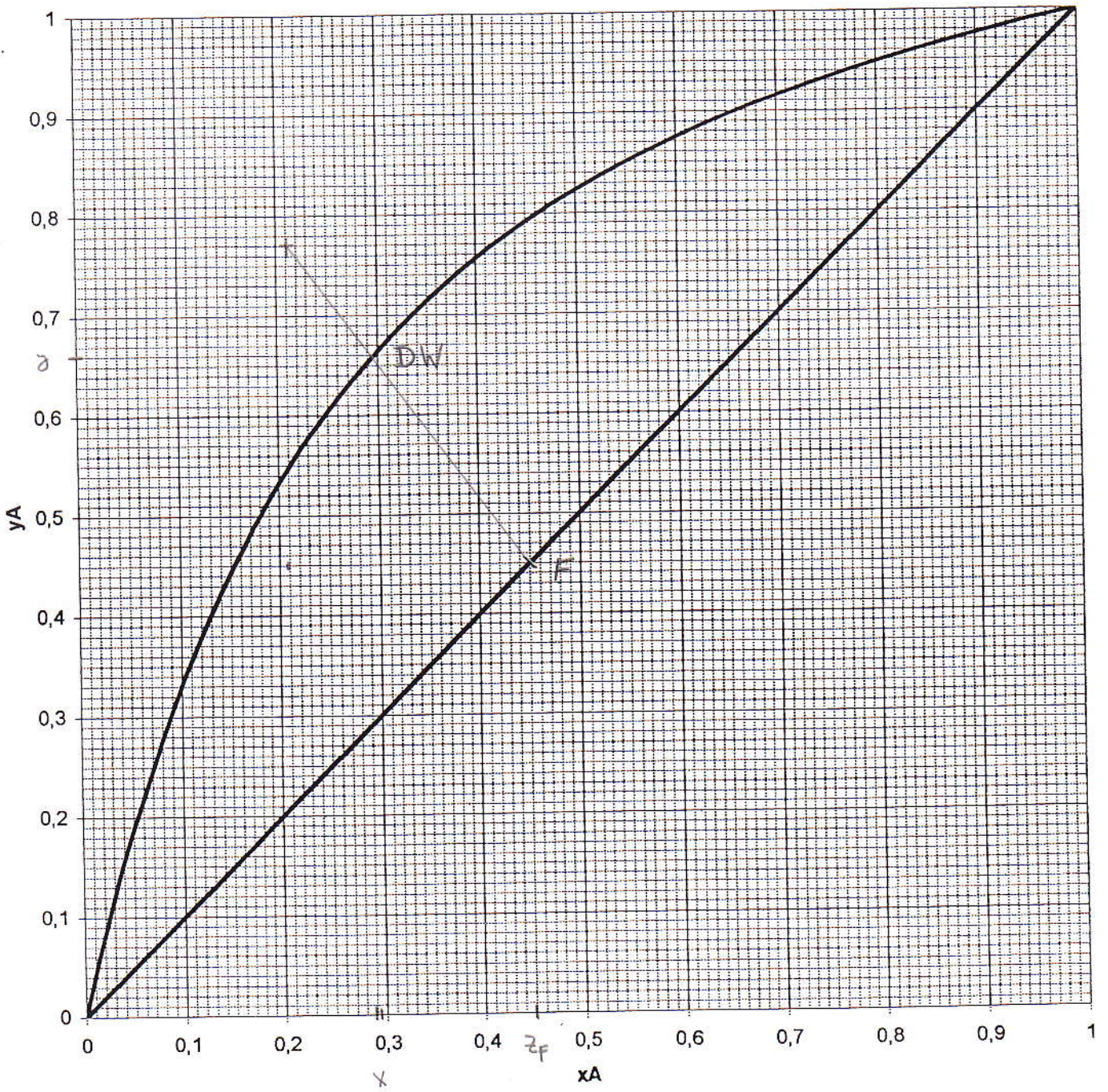
Zbýtek: 29,5 km% etanol, 70,5% butanol

Teplota destilace:

x'	y'	$T(x')$
0,25	0,6065	96,16
0,30	0,6654	93,84
0,295	0,66	...

$x = 94^\circ\text{C}$ interpolace

Eta nol - butanol



$$x = 0,295$$

$$y = 0,66$$