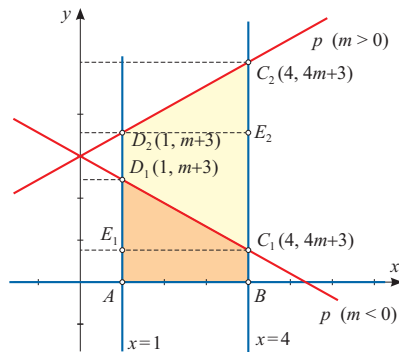


Zadatak 26.

Za koje je m površina konveksnog četverokuta što ga zatvaraju pravci $y = mx + 3$, $x = 1$, $x = 4$ s osi apscisa jednaka 12?

Rješenje.

$$m > 0$$

$$P = P_{ABE_2D_2} + P_{E_2C_2D_2}$$

$$12 = 3 \cdot (m + 3) + \frac{3 \cdot [(4m + 3) - (m + 3)]}{2}$$

$$12 = 3m + 9 + \frac{3}{2} \cdot 3m$$

$$12 = 3m + 9 + \frac{9}{2}m$$

$$\frac{15m}{2} = 3 \quad / \cdot \frac{2}{15}$$

$$m = \frac{2}{5}$$

$$m < 0$$

$$P = P_{ABC_1E_1} + P_{E_1C_1D_1}$$

$$12 = 3 \cdot (4m + 3) + \frac{3}{2} \cdot (m + 3 - 4m - 3)$$

$$3 = 12m - \frac{9}{2}m$$

$$\frac{15m}{2} = 3 \quad / \cdot \frac{2}{15}$$

$$m = \frac{2}{5}$$

nije rješenje jer je pretpostavka $m < 0$