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Opgave 211

$$a1: y - 5x = 0$$

$$a2: y - 4x - 3 = 0$$

$$b1: 2y - 3x + 6 = 0$$

$$b2: 3y + 3x - 6 = 0$$

$$c1: 15y + 18x - 45 = 0$$

$$c2: 10y - 18x - 35 = 0$$

Førstre ligninger

$$y - 5x = 0$$

$$y = 5x \quad \text{Isoler } y$$

$$y - 4x - 3 = 0$$

$$y = 4x + 3 \quad \text{Isoler } y$$

$$5x = 4x + 3 \quad \text{Sætter ligningerne overfor hindanden}$$

$$5x - 4x = 3 \quad \text{Flytter } 4x$$

$$x = 3 \quad \text{Minuse}$$

$$y = 5x$$

$$y = 5 \cdot (3) \quad \text{Indsæt den fundne } x \text{ i formel}$$

$$y = 15 \quad \text{Gange}$$

$$P_a(3,15)$$

Anden linginger

$$2y - 3x + 6 = 0$$

$$2y = 3x - 6 \quad \text{Isoler } y$$

$$y = 1.5x - 3 \quad \text{Divder med 2}$$

$$3y + 3x - 6 = 0$$

$$3y = -3x + 6 \quad \text{Isoler } y$$

$$y = -x + 2 \quad \text{Divderereer med 3}$$

$$1.5x - 3 = -x + 2 \quad \text{Sætter formler op}$$

$$1.5x + x = 2 + 3 \quad \text{Flytter rundt}$$

$$2.5x = 5 \quad \text{Reducer}$$

$$x = 2 \quad \text{Udregn}$$

$$y = -x + 2$$

$$y = -(2) + 2 \quad \text{Indsætter } x$$

$$y = 0 \quad \text{Udregn}$$

$$P_b(2,0)$$

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Tredje ligninger

$$15y + 18x - 45 = 0$$

$$15y = -18x + 45 \quad \text{Isoler } y$$

$$y = -1.2x + 3 \quad \text{Divider med 15}$$

$$10y - 18x - 35 = 0$$

$$10y = 18x + 35 \quad \text{Isoler } y$$

$$y = 1.8x + 3.5 \quad \text{Divder med 10}$$

$$-1.2x + 3 = 1.8x + 3.5 \quad \text{Formel mod hindande}$$

$$3 - 3.5 = 1.8x + 1.2x \quad \text{Flytter rundt}$$

$$-0.5 = 3x \quad \text{Reducer}$$

$$3x = -0.5 \quad \text{Bytter side}$$

$$x = -0.166 \quad \text{divider med 3}$$

$$y = -1.2x + 3$$

$$y = -1.2 \cdot (-0.166) + 3 \quad \text{Indsætter } x$$

$$y = 3.1992 \quad \text{UDregn}$$

$$P_c(-0.17, 3.2)$$