

Wiskunde notities

Ronan Berntsen

25 september 2022

1) a)

$$5(x - 3) = 7x + 8$$

$$5x - 15 = 7x + 8$$

$$-2x \cdot 15 = 7x + 8$$

$$-2x = 23$$

Antwoord

$$x = -11\frac{1}{2}$$

b)

$$\frac{2}{3}x - 2 = \frac{1}{5}x - \frac{3}{5}$$

$$\frac{2}{3}x = \frac{1}{5}x + 1\frac{2}{5}$$

$$\frac{2}{3}x - \frac{1}{5}x = 1\frac{2}{5}$$

Antwoord

$$\frac{7}{15}x = 1\frac{2}{5}$$

c)

$$2(3x - 1) = x - (3x - 14)$$

$$6x - 2 = x - 3x + 14$$

$$5x - 2 = -3x - 14$$

$$8x = -14$$

$$8x = -12$$

Antwoord

$$x = -1\frac{1}{2}$$

d)

$$\frac{1}{6}a + 4 = \frac{1}{3}(a - 3) - 1\frac{1}{2}a$$

$$\frac{1}{6}a + 4 = \frac{1}{3}a - 1 - 1\frac{1}{2}a$$

$$-\frac{2}{6}a + 4 = -1 - 1\frac{1}{2}a$$

$$1\frac{1}{6}a + 4 = -1$$

$$1\frac{1}{6}a = -5$$

Antwoord

$$a = -4\frac{5}{6}$$

2)

$$l : y = \frac{1}{2}x - 2$$

$$m : y = -2x$$

$$n : y = -\frac{3}{4}$$

Figuur 1: De lijnen l,m,n

