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Opgave 25

OPGAVE 25

Du skal bestemme grundmængde og x i følgende ligninger:

a)
$$\frac{1}{3} = \frac{10x - 12}{24}$$

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 b) $\frac{1 - 2x}{6 + x} = \frac{28 - 6x}{3x - 7}$ c) $\frac{12}{x} - \frac{6}{x - 2} = \frac{9}{x}$

c)
$$\frac{12}{x} - \frac{6}{x-2} = \frac{9}{x}$$

$$\alpha \frac{1}{3} = \frac{10x - 12}{24}$$

$$1 \cdot 24 = 3 \cdot (|Q_x - 12)$$

$$24 = 30\chi - 36$$

$$24 + 36 = 30x$$

$$60 = 30x$$
 | ;30

$$\chi = 2$$

b)
$$\frac{1 - 2x}{6 + x} = \frac{28 - 6x}{3x - 7}$$

$$(1 - 2x) \cdot (3x - 7) = (6 + x) \cdot (29 - 6x)$$

 $3x - 7 - 6x^2 + 14x = 168 - 36x + 28x - 6x^2$

$$-6x^{2} + 6x^{2} + 3x + 14x + 36x - 28x = 168 + 7$$

$$(\frac{12}{x} - \frac{6}{x - 2} = \frac{9}{x} (x \cdot (x - 2))$$

$$12 \cdot (x - 2) - 6x = 9 \cdot (x - 2)$$

$$12x - 24 - 6x = 9x - 18$$

$$12x - 6x - 9x = -18 + 24$$

$$-3x = 6$$
 |:-3

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