

$$(x-15)(x-6) - (x-15)(0,7x-0,6) = 0$$

$$(x-15)(x-6-0,7x+0,6) = 0$$

$$(x-15)(0,3x-5,4) = 0$$

$$x = 15$$

$$x = \frac{54 \cdot 10}{10 \cdot 3} = 18$$

Answer:  $x = 15$

$$b_2 + b_3 = 30 \Rightarrow b_2 = 30 - b_3$$

$$b_1 - b_2 = 30$$

$$b_1 - 30 + b_3 = 30$$

$$b_3 + b_3 = 60$$

b

$$\frac{60q}{q^2(1+q)} + b_1 \frac{60q^2}{q^2(1+q)} = 30$$

$$\frac{60 + 60q - 30q - 30q^2}{q(1+q)} = 0 \Leftrightarrow$$

$$\text{OD 3: } q \neq 0$$

$$q = -1$$

$$b_1 = \frac{60}{4 \cdot 3} = 5$$

$$b_2 = b_1 q$$

$$b_3 = b_1 q^2$$

$$b_4 = b_1 q^3$$

$$b_1 q + b_1 q^2 = 30$$

$$+ \quad b_1 q^3 - b_1 q = 30$$

$$b_1 q^2 + b_1 q^3 = 60$$

$$b_1 q^2 (1+q) = 60$$

$$b_1 = \frac{60}{q^2(1+q)}$$

$$20q^2 + 60 + 30q - 30q^2 = 0 \quad | : (-30) \Rightarrow$$

$$q^2 - q - 2 = 0 \quad \text{no missing}$$

$$q = 2 \quad q = -1$$

$$6945 = (01-10)6 = 5h_3 + x$$

$$01 = h_1 x$$

$$06 = h_2 x$$

$$06 = (h_1 + x) h_2 x$$

$$66 = h_1 x + h_2 x + h_3 x$$

$$19 = 2h_1 + x$$

$$18 = 2h_2 + x$$

$$(h_1 + h_2 - x)6 = (h_1 + h_2 - x)(h_1 + x) = 5h_3 + x$$