

**Ausklammern von Faktoren**  
**Tägliche Übung**

4. Stunde  
15 min

**Ausklammern von Faktoren**

(Wdh.)

15 min

$$25x + 40y - 15z =$$

$$5(5x + 8y - 3z)$$

$$120ab + 144a^2b^2 - 240a^3b^3 =$$

$$12ab(10 + 12ab - 20a^2b^2)$$

$$32a - 16b =$$

$$16(2a - b)$$

$$20q^3 + 25q^2 =$$

$$5q^2(4q + 5)$$

$$18a^2b^3 + 27ab^2 - 36a^2b^2 =$$

$$9ab^2(2ab + 3 - 4a)$$

$$-4r - 2s - 6t =$$

$$-2(2r + s + 3t)$$

$$-6a - 12b + 18c =$$

$$-6(a + 2b - 3c)$$

$$\frac{a}{10} + \frac{b}{10} = \frac{1}{10}(a + b)$$

**Übung - Ausklammern des Faktors (-1)!**

15 min

a.)

|                                    |                                    |                              |
|------------------------------------|------------------------------------|------------------------------|
| $-5 - a = -1(5 + a)$               | $-x + y = -1(x - y)$               | $-r^2 - 9 = -1(r^2 + 9)$     |
| $-x - y = -1(x + y)$               | $-4 + q = -1(4 - q)$               | $-ab + 20 = -1(ab - 20)$     |
| $-b - 7 = -1(b + 7)$               | $a - 3 = -1(-a + 3)$               | $-x^2y - 11 = -1(x^2y + 11)$ |
| $a + b - c = -1(-a - b + c)$       | $-2a + 5b - 9c = -1(2a - 5b + 9c)$ |                              |
| $r - s^2 + rs = -1(-r + s^2 - rs)$ | $-x - 2y - 3z = -1(x + 2y + 3z)$   |                              |
| $-q - p = -1(q + p)$               | $4/5 + x + y = -1(-4/5 - x - y)$   |                              |