

Rozložte na součin výraz

a)

$$ax - bx - a + b$$

b)

$$r^3 - r^2 + r - 1$$

c)

$$7z - 21 + 6b - 2bz$$

d)

$$5t - 2tm - 10m + 25$$

e)

$$2nz + ky + kz + 2ny$$

f)

$$3ac + 2d - 3ad - 2c$$

Rozložte na součin výraz - řešení

a)

$$ax - bx - a + b$$

$$\begin{aligned} ax - bx - a + b &= \\ &= a(x-1) - b(x-1) = \underline{\underline{(x-1) \cdot (a-b)}} \end{aligned}$$

b)

$$r^3 - r^2 + r - 1$$

$$\begin{aligned} r^3 - r^2 + r - 1 &= \\ &= r(r^2+1) - (r^2+1) = \underline{\underline{(r^2+1) \cdot (r-1)}} \end{aligned}$$

c)

$$7z - 21 + 6b - 2bz$$

$$\begin{aligned} 7z - 21 + 6b - 2bz &= \\ &= 7(z-3) - 2b(z-3) = \underline{\underline{(z-3) \cdot (7-2b)}} \end{aligned}$$

d)

$$5t - 2tm - 10m + 25$$

$$\begin{aligned} 5t - 2tm - 10m + 25 &= \\ &= 5(t+5) - 2m(t+5) = \underline{\underline{(t+5) \cdot (5-2m)}} \end{aligned}$$

e)

$$2nz + ky + kz + 2ny$$

$$\begin{aligned} 2nz + ky + kz + 2ny &= \\ &= 2n(z+y) + k(z+y) = \underline{\underline{(z+y) \cdot (2n+k)}} \end{aligned}$$

f)

$$3ac + 2d - 3ad - 2c$$

$$\begin{aligned} 3ac + 2d - 3ad - 2c &= \\ &= 3a(c-d) - 2(c-d) = \underline{\underline{(c-d) \cdot (3a-2)}} \end{aligned}$$