

Algebra

Expansion and Factorization

Fully factorise: **a** $3a + 6$ **b** $ab - 2bc$

$$\begin{aligned} & 3a + 6 \\ &= 3 \times a + 3 \times 2 \\ &= 3(a + 2) \quad \{\text{HCF is } 3\} \end{aligned}$$

$$\begin{aligned} \text{b} \quad & ab - 2bc \\ &= a \times b - 2 \times b \times c \\ &= b(a - 2c) \quad \{\text{HCF is } b\} \end{aligned}$$

complete:

a $2x + 4 =$

b $3a - 12 =$

c $15 - 5p =$

d $18x + 12 =$

e $4x^2 - 8x =$

f $2m + 8m^2 =$

Fully factorise:

a $3a + 3b$

b $8x - 16$

c $3p + 18$

d $28 - 14x$

e $7x - 14$

f $12 + 6x$

g $ac + bc$

h $12y - 6a$

