Algebra

Expansion and Factorization

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

a
$3a + 6$
$= 3 \times a + 3 \times 2$
$= 3(a + 2)$ {HCF is 3}

b
$ab - 2bc$
$= a \times b - 2 \times b \times c$
$= b(a - 2c)$ {HCF is b}

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** $12y - 6a$ ☐