Factorizations Ex 7.3 Q10

Answer :

$6(a+2b)-4(a+2b)^2$
$=[6-4(a+2b)](a+2b) \quad [Taking\ (a+2b)\ as\ the\ common\ factor]$
$=2[3-2(a+2b)](a+2b) \quad \{Taking\ 2\ as\ the\ common\ factor\ of\ [6-4(a+2b)]\}$
$=2(3-2a-4b)(a+2b)$

Factorizations Ex 7.3 Q11

Answer :

$a(x-y)+2b(y-x)+c(x-y)^2$
$=a(x-y)-2b(x-y)+c(x-y)^2 \quad [\because (y-x)=-(x-y)]$
$=[a-2b+c(x-y)](x-y)$
$=(a-2b+cx-cy)(x-y)$

Factorizations Ex 7.3 Q12

Answer :

$-4(x-2y)^2+8(x-2y)$
$=[-4(x-2y)+8](x-2y) \quad [Taking\ (x-2y)\ as\ the\ common\ factor]$
$=4[-(x-2y)+2](x-2y) \quad \{Taking\ 4\ as\ the\ common\ factor\ of\ [-4(x-2y)+8]\}$
$=4(2y-x+2)(x-2y)$

********** END **********