Mixed Expanding Brackets

Expand and simplify, where possible:

(a) $6(x+5)-4(3+x)$

(b) $(2y+5)(4-y)$

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

(d) $x(3x-2)-2x(1-x)$

(e) $(9-2b)(b+a)$

Expand and simplify, where possible:

(a) $x+2+(x+7)(x+4)$

(b) $20-3y(y+6)$

(c) $a(a+b)+5a-7ab$

(d) $(2c-5)(3c-1)+c^2$

(e) $x^2-16+(x+4)^2$

Expand and simplify, where possible:

(a) $4w(5-2w)-3(5-2w)-12$

(b) $(5-2w)(4w-3)-12$

(c) $(x-5)(x-2)+5(x-2)$

(d) $(5c-d)(3d-2c)-2(c+d)$

(e) $6(4-x)-(x+1)(x-1)$

Expand and simplify, where possible:

(a) $xy(5+x)+(y+x)(2y-x)+3xy$

(b) $2a^2-(a+2b)(3b-1)+4a(b-2a)$

(c) $(5y-1)(y+3)-(2y+3)(y+7)$

Come up with your own 'expand and simplify' question where the answer is $5x+18$ and the question contains:

(a) Two sets of single brackets

(b) One set of double brackets

(c) One set of double brackets and one set of single brackets

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