Expanding Triple Brackets

คิดถึงครูอ้น(C9)
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#1: You need to how to deal with brackets with more than two things in them.

$$(x + y + 1)(x + y) =$$

#2: You need to deal with three (and theoretically more) brackets.

$$(2x + y)(x - y)(x + y) =$$

$$(x + 2)^3 =$$

Expand and simplify $(y^2 - 5y + 2)(2y - 3)$

Expand and simplify $(x - 3)(x - 1)^2$

Exercises

1 Expand and simplify $x(x+2)(x+3)$

2 Expand and simplify $(x+4)^3$

3 Expand and simplify $xy(2x + 3y)(5x - 2y)$

4 Expand and simplify $(x + 3)^3 - (x - 1)^2$

5 Expand and simplify $x(x+2)(x+3)$

6 Expand and simplify $(x+4)^3$

4 Expand and simplify $(x+3)^3-(x-1)^2$

5 If $(x+k)^2(x+2)=x^3+14x^2+60x+72$
Find the value of k.

6 If $(ax+b)^2(x+c) = 4x^3 + dx^2 - 55x - 100$
Find the values of the integers a, b, c and d.