Powers and polynomial multiplication — Further practice

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Further practice 11

Simplify completely, showing the relevant rule.

$$(a+b)^2(a+b)^3$$

Further practice 12

Simplify completely, showing the relevant rule.

$$(y^2)^5$$

Further practice 13

Simplify completely, showing the relevant rule.

$$(-3a^2b)^2$$

Further practice 14

Simplify completely, showing the relevant rule.

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

Extension 15

Simplify completely, showing the relevant rule.

$$(2x^2)(-3x)(4x^3)$$

Extension 16

A rectangle has positive side lengths x+3 and x+1 units, with x>0. Express its area as a simplified polynomial.

$$(x+3)(x+1)$$