Special products and polynomial division — Further practice

Year 8, upper volume • text pp. 63–72 • foundation lessons 32–36

Further practice 11

Simplify completely, showing the relevant rule.

$$(x+6)(x-6)$$

Further practice 12

Simplify completely, showing the relevant rule.

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

Further practice 13

Simplify; retain the original divisor restriction $x \neq 0$.

$$\frac{x^8}{x^5}$$

Further practice 14

Simplify; retain the original divisor restriction $x \neq 0$, $y \neq 0$.

$$\frac{-12x^3y^2}{3xy}$$

Extension 15

Simplify completely, showing the relevant rule.

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

Extension 16

Simplify completely, showing the relevant rule.

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