Proctions

multiplication and division

O check for common factor Cro O factorise	ss cancelling: ⋈ ३×4 = 1
3 cross cancel	can't factorise -9
examples: 922-4 - 22+3	$\frac{x^3-8}{4x^2-x^4}$ $\times \frac{x^2+3x^2}{x^2+2x+4}$ See if it matches
$3x^{2}-4x^{2}-4x = 2x^{2}-x-6$ $= (3x+2)(3x-2) \times (2x+3)(x-2)$ $= (3x+2)(3x-2) \times (2x+3)$	$\frac{1 - (x - 2)(x^2 + 2x + 4)}{x^2(2 - x)(2 + x)} \times \frac{x^2(x + 3)}{(x^2 + 2x + 4)} $
- 3x-2	$-(x-z)$ $\sqrt{(x+3)}$
x	-(x-z)(x+z) 1 = -:x+3

Note: only M if there is one term on top and one term on bottom

addition and subtraction

1 factorise denominators	LCD: 3 4 - 3 4
(2) find lowest common denominator	a+2 a-3 (a+2) (a-3)
3 multiply numerators by LCD	:. LCD = (a+2)(a-3)
examples: $x-1 = 2x+1$	3 + 2×
	C+2) 4x2-12xx+9 4x2-9
= x(x-1) - (2x+1)(x+2)	= 3
x(x+z)	(2x-3)(2x-3) $(2x+3)(2x-3)$
= x2-x-(2x2+5x+2)	= 3(2x+3)+2x(2x-3)
x(x+2)	(2x+3)(2x-3) LCD = $(2x+3)$
x^2-6x-2	$-4x^2+9$ (2x-3)
$= -\frac{x^2 - 6x - 2}{x(x+2)}$	$(2x+3)(2x-3)^2$

Maths Teacher Notes

Patrick Vollmar



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