$4\sqrt{}$

Generic Box Method

$8x^3+14x^2+x-2 \div 2x+1$

$4x^2 \quad 5x \quad -2 \quad R$

$2x$	$8x^3$	$10x^2$	$-4x$	0
1	$4x^2$	$5x$	-2	0

$4x^2 + \_\_ = 10x^2$

$5x + \_\_ = 9x$

$-2 + \_\_ = -2$

answer: $4x^2+5x-2$

Ex 2: $5x^4 + 18x^3 + 29x^2 + 7x - 5 \div (5x+3)$

	x^3	$3x^2$	$4x$	-1	R
$5x$	$5x^4$	$15x^3$	$20x^2$	$-5x$	-2
3	$3x^3$	$9x^2$	$12x$	-3	

- $3x^3 + \underline{15x^3} = 18x^3$
- $9x^2 + \underline{20x^2} = 29x^2$
- $12x + \underline{-5x} = 7x$
- $-3 + \underline{-2} = -5$

answer: $x^3 + 3x^2 + 4x - 1 \frac{-2}{5x+3}$