

Dividing Polynomials - Box Method

Divide the following by box method.

1) $\frac{x^3 + 4x^2 + 5x + 6}{x + 3} =$

x	3		

2) $\frac{4b^3 - 19b^2 - 9b - 1}{b^2 - 5b - 1} =$

b^2		
$-5b$		

3) $\frac{k^3 - 2k^2 - 5k + 6}{k^2 + k - 2} =$

k^2	
k	
-2	

$\frac{\quad}{7} =$

7	

5) $\frac{3y^3 - y^2 + y - 3}{y - 1} =$

y	-1		

$2a^2$		
$3a$		
4		

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Dividing Polynomials - Box Method

Divide the following by box method.

1) $\frac{x^3 + 4x^2 + 5x + 6}{x + 3} = x^2 + x + 2$

	x	3
x^2	x^3	$3x^2$
x	x^2	$3x$
2	$2x$	

2) $\frac{4b^3 - 19b^2 - 9b - 1}{b^2 - 5b - 1} = 4b + 1$

	$4b$	1
b^2	$4b^3$	b^2
$-5b$	$-20b^2$	$-5b$
		-1

3) $\frac{k^3 - 2k^2 - 5k + 6}{k^2 + k - 2} = k - 7$

	k
k^2	k^3
k	k^2
-2	$-2k$

$\frac{14n^2 + 14n + 7}{n^2 + 7} = 2n^2 + 2n + 1$

	7
	$14n^2$
	$14n$
	7

5) $\frac{3y^3 - y^2 + y - 3}{y - 1} = 3y^2 + 2y + 3$

	y	-1
$3y^2$	$3y^3$	$-3y^2$
$2y$	$2y^2$	$-2y$
3	$3y$	-3

	$2a$	-3
$2a^2$	$4a^3$	$-6a^2$
$3a$	$6a^2$	$-9a$
4	$8a$	-12

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