

Dividing Polynomials - Box Method

Divide the following by box method.

1) $\frac{16c^3 + 8c^2 + 5c - 2}{4c - 1} =$

4c	-1

2) $\frac{6q^3 - 4q^2 - 7q + 12}{2q^2 - 4q + 3} =$

2q ²	
-4q	

3) $\frac{3d^3 + 8d^2 + 6d + 4}{d + 2} =$

d

-4

PREVIEW

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5) $\frac{t^3 - 4t^2 - 11t - 6}{t^2 + 2t + 1} =$

t ²	
2t	
1	

5r	1

Dividing Polynomials - Box Method

Divide the following by box method.

1) $\frac{16c^3 + 8c^2 + 5c - 2}{4c - 1} = 4c^2 + 3c + 2$

	4c	-1
4c ²	16c ³	-4c ²
3c	12c ²	-3c
2	8c	

2) $\frac{6q^3 - 4q^2 - 7q + 12}{2q^2 - 4q + 3} = 3q + 4$

	3q	4
2q ²	6q ³	8q ²
-4q	-12q ²	-16q
		12

3) $\frac{3d^3 + 8d^2 + 6d + 4}{d + 2}$

	d
3d ²	3d ³
2d	2d ²
2	2d

$r^2 + 4a + 6$

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	-4
	-4a ²
	-16a
	-24

5) $\frac{t^3 - 4t^2 - 11t - 6}{t^2 + 2t + 1} =$

	t	-6
t ²	t ³	-6t ²
2t	2t ²	-12t
1	t	-6

$= r^2 + 4r + 1$

	5r	1
r ²	5r ³	r ²
4r	20r ²	4r
1	5r	1