

# Dividing Polynomials - Box Method

Divide the following by box method.

1)  $\frac{5m^3 - 8m^2 + m + 2}{m^2 - 2m + 1} =$

$m^2$		
$-2m$		
1		

2)  $\frac{7z^3 + 27z^2 - 3z + 4}{z + 4} =$

$z$	4		

3)  $\frac{v^3 - 3v^2 - 15v - 18}{v - 6} =$

$v$	

=


5)  $\frac{3g^3 - 8g^2 - g - 6}{3g^2 + g + 2} =$

$3g^2$		
$g$		
2		

=

$6p$	$-1$		

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**Dividing Polynomials - Box Method**

Divide the following by box method.

1)  $\frac{5m^3 - 8m^2 + m + 2}{m^2 - 2m + 1} = 5m + 2$

	<b>5m</b>	<b>2</b>
<b>m<sup>2</sup></b>	<b>5m<sup>3</sup></b>	<b>2m<sup>2</sup></b>
<b>-2m</b>	<b>-10m<sup>2</sup></b>	<b>-4m</b>
<b>1</b>	<b>5m</b>	

2)  $\frac{7z^3 + 27z^2 - 3z + 4}{z + 4} = 7z^2 - z + 1$

	<b>z</b>	<b>4</b>
<b>7z<sup>2</sup></b>	<b>7z<sup>3</sup></b>	<b>28z<sup>2</sup></b>
<b>-z</b>	<b>-z<sup>2</sup></b>	<b>-4z</b>
		<b>4</b>

3)  $\frac{v^3 - 3v^2 - 15v - 18}{v - 6} = 2s - 5$

	<b>v</b>
<b>v<sup>2</sup></b>	<b>v<sup>3</sup></b>
<b>3v</b>	<b>3v<sup>2</sup></b>
<b>3</b>	<b>3v</b>

	<b>-5</b>
	<b>-5s<sup>2</sup></b>
	<b>-10s</b>
	<b>-10</b>

5)  $\frac{3g^3 - 8g^2 - g - 6}{3g^2 + g + 2} = p^2 - p - 3$

	<b>g</b>	<b>-3</b>
<b>3g<sup>2</sup></b>	<b>3g<sup>3</sup></b>	<b>-9g<sup>2</sup></b>
<b>g</b>	<b>g<sup>2</sup></b>	<b>-3g</b>
<b>2</b>	<b>2g</b>	<b>-6</b>

	<b>6p</b>	<b>-1</b>
<b>p<sup>2</sup></b>	<b>6p<sup>3</sup></b>	<b>-p<sup>2</sup></b>
<b>-p</b>	<b>-6p<sup>2</sup></b>	<b>p</b>
<b>-3</b>	<b>-18p</b>	<b>3</b>

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