	Division – a shortcut for dividing a by a binomial of
	X cannot be of a degree than.
	of has to be.
	50kg :
	(x-3) means $r=$
	(x+3) means r =
	1. up terms in order of
	putting a where there is a power of .
	2. Take the of the , and the
	from (x-r), keeping the .
	3. Bring down your coefficient.
	4. your 1st coefficient by .
	5. Write the from step 4 under the
	, then
	6. the sum, by, write under
	, and then . these steps
	until all have been for.
	7. The represents the . The
	other #s are the of the
	polynomial, which has degree than
	your polynomial.
*	Theorem – the binomial is a of
t	he polynomial if there is when you
,	the into the polynomial.
Т	This will also means that is a / / .
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in to your

So if you

, you will get

Divide.

1)
$$(3b^3 + 14b^2 + 12b + 16) \div (b + 4)$$

2)
$$(4r^3 + 19r^2 + 20r - 1) \div (r + 3)$$

3)
$$(n^3 - 2n^2 + 4n + 1) \div (n - 1)$$

4)
$$(a^3 - 17a^2 + 71a - 1) \div (a - 10)$$

5)
$$(x^3 - 2x^2 - 8x - 9) \div (x + 1)$$

6)
$$(n^4 + 8n^3 - 7n^2 + 28n + 95) \div (n + 9)$$

7)
$$(m^4 - m^3 - 25m^2 + 32m + 44) \div (m + 5)$$

7)
$$(m^4 - m^3 - 25m^2 + 32m + 44) \div (m+5)$$
 8) $(2x^4 + 14x^3 + 18x^2 - 21x - 9) \div (x+3)$

9)
$$(n^4 - 8n^3 + 12n^2 - 10n + 5) \div (n - 1)$$
 10) $(x^4 - 9x^3 + 10x - 90) \div (x - 9)$

10)
$$(x^4 - 9x^3 + 10x - 90) \div (x - 9)$$

11)
$$(r^4 - 7r^3 - 19r^2 + 17r - 72) \div (r - 9)$$

12)
$$(n^4 + 9n^3 + 12n^2 - 48n - 40) \div (n + 5)$$