

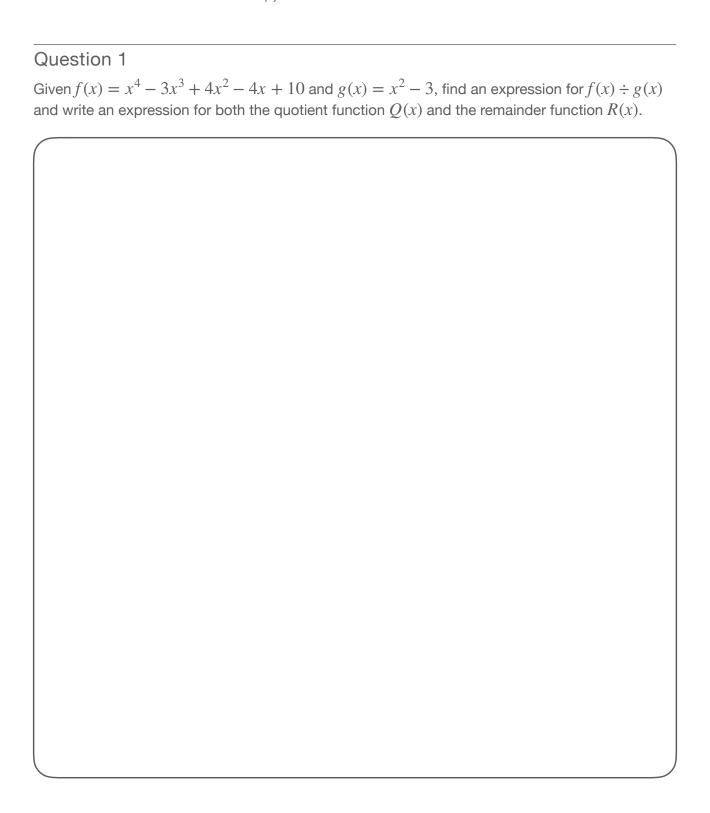
Long Division of Polynomials

Worksheet 1

Answer each of the following without using a calculator and using the boxes provided for your answers.

Show all of your working.

Click on the link in the Header of this page, or scan the QR Code, to view the online notes, tutorial(s) and answers for this worksheet.



$\overline{}$					٠			_
Ω	ш		C	٠	L	\cap	n	(')
V	u	┖	$\overline{}$			u	11	

Given $f(x) = x^4 - 3x^3 + x^2 - 2x + 3$ and g(x) = x - 2, find an expression for $f(x) \div g(x)$ and write an expression for both the quotient function Q(x) and the remainder function R(x).



Question 5	Qu	estion	3
------------	----	--------	---



1	\cap		_	O-1	Hi	_	n	4	
1		ш	Р	91	ш	റ	n	1 4	

Question 4	
Given $f(x) = x^5 + 4x^3 - 3x + 7$ and $g(x) = x + 1$, find an expression for $f(x)$ an expression for both the quotient function $Q(x)$ and the remainder function	$(x) \div g(x)$ and write $R(x)$.



Q G C C C C C C	Qu	est	ior	า 5
-----------------	----	-----	-----	-----

Given $f(x) = 4x^5 + 4$ and write an expres	$+2x^4 - 5x^2 + 3$ assion for both the o	$g(x) = 2x^2$ quotient function	+x-1, find an $Q(x)$ and the re	expression for $f(x)$	$f(x) \div g(x)$ $f(x).$



Question 6	Qı	Jes	stic	on	6
------------	----	-----	------	----	---

en f(x) = 0 $en f(x) = 0$	$5x^2 - 5x^2 + x$ xpression for b	x - 2x + 3 a south the quoti	ent function (x - 3, find an $Q(x)$ and the	expression fo remainder fund	ction $R(x)$.



Ques	tic	n	7
Ques	LIC	/ I I	- 1



Qu	estion	8
~ ~	001.011	_

ven $f(x) = 8x^6 + 4x^5 - 3x^2 + 4x + 3$ and $g(x) = x + 1$, find an expression for $f(x) \div g(x)$ and write an expression for both the quotient function $Q(x)$ and the remainder function $R(x)$.					