Quiz ID: 101

Chinese Name:	
$\frac{5x^3 + 13x^2 - 12x - 12}{-x - 3} =$	
Division and the Remainder Theorem, where	
$f(x) = -4x^3 - x^2 - 4x - 3$	
	$\frac{5x^3 + 13x^2 - 12x - 12}{-x - 3} =$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -4 + 5i$$

$$z_2 = -5 - 2i$$

4. Given that x = 5 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 13x^2 + 57x - 85$$

Quiz ID: 102

English Name: _	 Chinese Name:	

1. Calculate the following division:

$$\frac{-15x^3 - 28x^2 + 2x + 5}{-5x - 1} =$$

$$f(x) = -5x^3 - x^2 + 2x - 5$$

3. Calculate
$$z_1 + z_2$$
, $z_1 \cdot z_2$ and $\frac{z_1}{z_2}$, where:

$$z_1 = 3 - 5i$$

$$z_2 = -1 - 2i$$

4. Given that x = 3 is a root of f(x), find the other two roots.

$$f(x) = x^3 - x^2 + 11x - 51$$

Quiz ID: 103

English Name:	Chinese Name:	

1. Calculate the following division:

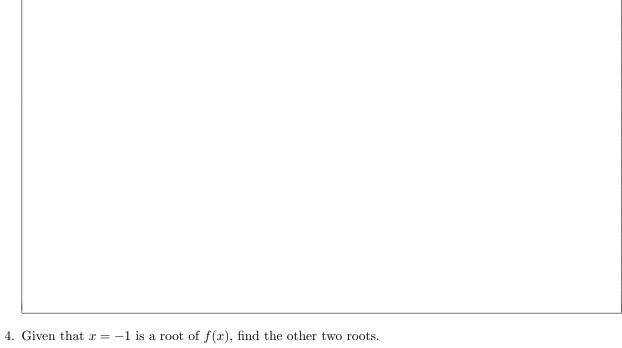
$$\frac{-8x^3 + 12x^2 - 12x + 1}{-4x + 2} =$$

$$f(x) = -2x^3 - 2x^2 + 1$$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = -4 + 4i$$

$$z_2 = 2 - 3i$$



$$f(x) = x^3 - 3x^2 + 9x + 13$$



Quiz ID: 104

English Name:	Chinese Name:
211811011 1141110.	emilese riame.

1. Calculate the following division:

$$\frac{-12x^3+11x^2-11x+27}{-4x+5} =$$

$$f(x) = -5x^3 - x^2 - x + 4$$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -5 - 5i$$

$$z_2 = 3 - 4i$$

4. Given that x = 4 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 8x^2 + 36x - 80$$

Quiz ID: 105

Eng	lish Name:	Chinese Name:
1.	Calculate the following division:	$\frac{8x^3 + 8x^2 - 10x - 4}{4x + 4} =$

$$f(x) = x^3 + 2x - 2$$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -1 + 5i$$

$$z_2 = 1 - 3i$$

$$f(x) = x^3 + 2x^2 + 10x - 136$$



Quiz ID: 106

English Name:	Chinese Name:

1. Calculate the following division:

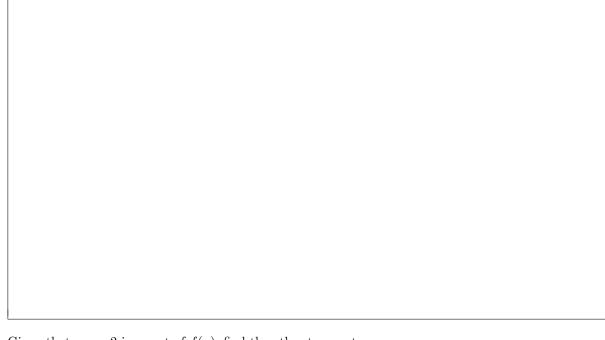
$$\frac{6x^3 + 8x^2 - 13x - 12}{-2x - 4} =$$

$$f(x) = -3x^3 + 5x^2 - 3x - 1$$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = 2 - 5i$$

$$z_2 = -5 - 1i$$



4. Given that x = -2 is a root of f(x), find the other two roots.

$$f(x) = x^3 + 6x^2 + 16x + 16$$



Quiz ID: 107

English Name:	Chinese Name:	

1. Calculate the following division:

$$\frac{-16x^3 - 16x^2 - 16x + 1}{4x} =$$

$$f(x) = -4x^3 + 3x^2 - 2x + 2$$

3.	Calculate	z_1	+	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where
----	-----------	-------	---	---------	-------	-------------	-----	---------------------	-------

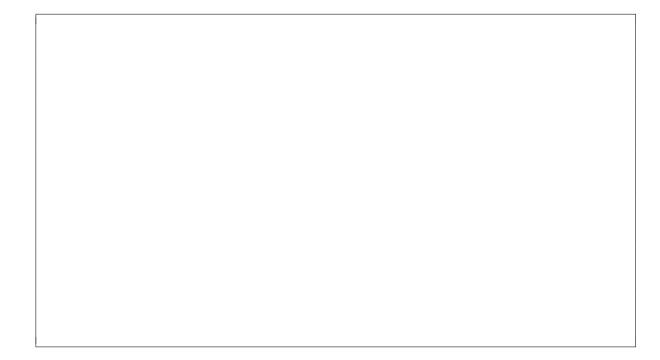
$$z_1 = 4 - 4i$$

$$z_2 = -4 - 4i$$



4. Given that x = 5 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 9x^2 + 28x - 40$$



Quiz ID: 108

Eng	glish Name:	Chinese Name:
1.	Calculate the following division:	$\frac{9x^3 + 12x^2 + 13x + 8}{-3x - 3} =$

$$f(x) = 3x^3 + 4x^2 + 5x + 1$$

3. Calculate
$$z_1 + z_2$$
, $z_1 \cdot z_2$ and $\frac{z_1}{z_2}$, where:

$$z_1 = -2 + 1i$$

$$z_2 = 4 - 3i$$

4. Given that x = -2 is a root of f(x), find the other two roots.

 $f(x) = x^3 - 4x^2 + 6x + 36$

Quiz ID: 109	
English Name:	Chinese Name:
1. Calculate the following division:	$\frac{5x^3 + 25x^2 - 18x - 4}{-5x} =$
2. Calculate $f(1)$ using Synthetic Divis	ion and the Remainder Theorem, where
	$f(x) = 3x^3 - 4x^2 + x + 3$

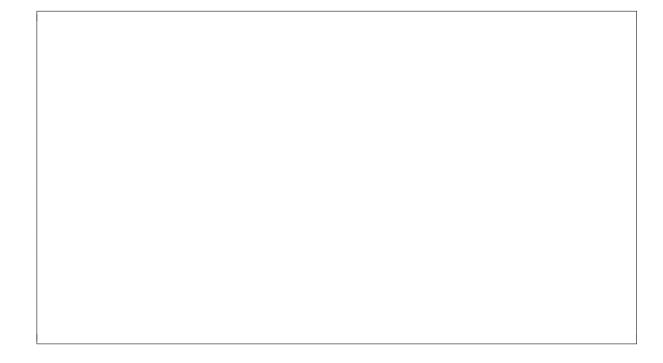
3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -4 + 3i$$

$$z_2 = 5 + 3i$$

Given that $x = 5$ is a	root of $f(x)$, find the	e other two roots.		

$$f(x) = x^3 - 11x^2 + 48x - 90$$



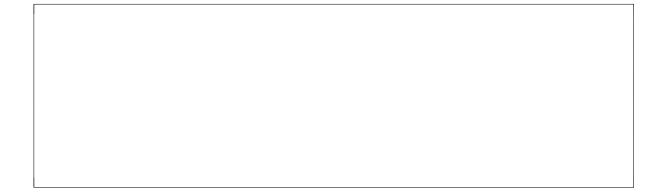
Quiz ID: 110

English Name:	Chinese Name:

1. Calculate the following division:

$$\frac{x^3 - 9x - 2}{x + 1} =$$

$$f(x) = -3x^3 + 3x^2 + 4x + 4$$



3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = 3 + 2i$$

$$z_2 = -1 + 2i$$

4. Given that x = 5 is a root of f(x), find the other two roots.

$$f(x) = x^3 + 5x^2 - 250$$

Quiz ID: 111	
English Name:	Chinese Name:
1. Calculate the following divisi	ion: $\frac{2x^3 - 8x^2 + 3}{2x} =$
2. Calculate $f(1)$ using Synthet	cic Division and the Remainder Theorem, where
	$f(x) = -2x^3 - 2x^2 - 2x + 1$

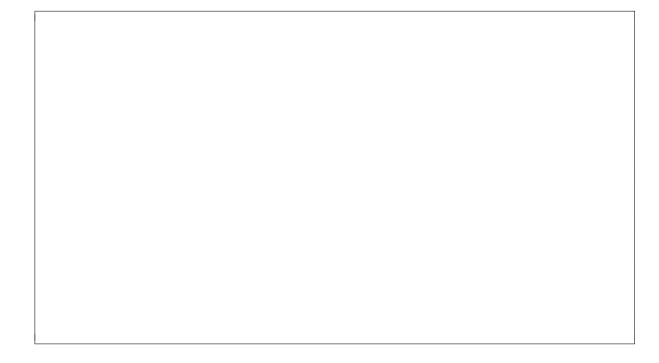
3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = 3 + 2i$$

$$z_2 = -2 + 5i$$

4. Given that x = -5 is a root of f(x), find the other two roots.

$$f(x) = x^3 + 15x^2 + 84x + 170$$



Quiz ID: 112

English Name:	 Chinese Name:	

1. Calculate the following division:

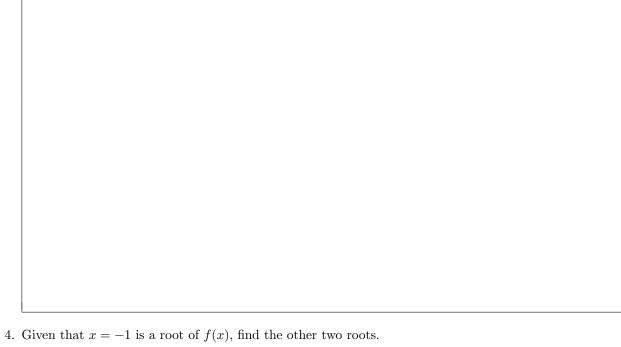
$$\frac{-25x^3 - 5x^2 - 11x + 3}{-5x + 2} =$$

$$f(x) = -4x^3 + 5x^2 - 4x - 4$$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = 3 + 5i$$

$$z_2 = 3 + 3i$$



$$f(x) = x^3 + 7x^2 + 24x + 18$$



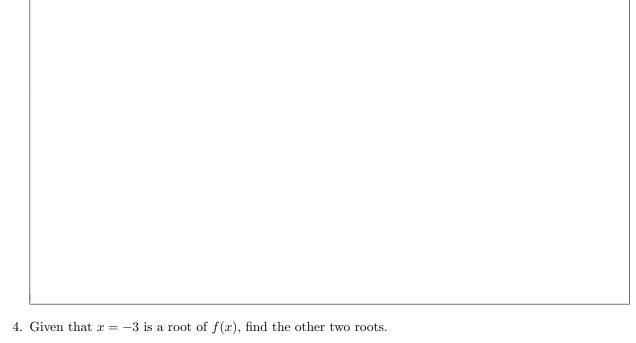
Quiz ID: 113

English Name:	Chinese Name:
1. Calculate the following division:	$\frac{-x^3 - 6x^2 - 3x + 14}{-x - 3} =$
2. Calculate $f(-1)$ using Synthetic Div	vision and the Remainder Theorem, where
	$f(x) = 2x^3 + 2x^2 - 2x - 5$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = 3 + 1i$$

$$z_2 = 3 - 1i$$



$$f(x) = x^3 - 7x^2 - 4x + 78$$



Quiz ID: 114

English Name:	Chinese Name:

1. Calculate the following division:

$$\frac{10x^3 + 5x^2 - 43x + 30}{5x - 5} =$$

$$f(x) = -3x^3 - 2x^2 - 2x - 1$$

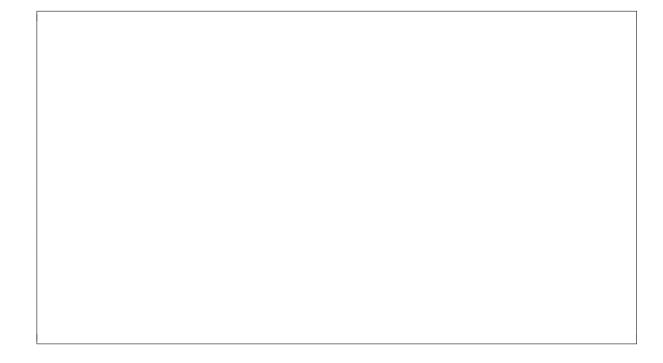
3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = 5 + 2i$$

$$z_2 = -4 + 1i$$

4. Given that x = 5 is a root of f(x), find the other two roots.

$$f(x) = x^3 - x^2 - 15x - 25$$



Quiz ID: 115

Quiz ID: 115	
English Name:	Chinese Name:
1. Calculate the following division:	$\frac{8x^3 + 8x^2 - 6x - 1}{-4x - 4} =$
2. Calculate $f(-1)$ using Synthetic Division	on and the Remainder Theorem, where
	$f(x) = 5x^3 + 5$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = -3 + 5i$$

$$z_2 = -2 - 2i$$

Given that $x = -5$ is a r	$\frac{1}{1}$	other two roots	

$$f(x) = x^3 - 5x^2 + 250$$



Quiz ID: 116

English Name: Chi	inese Name:
-------------------	-------------

1. Calculate the following division:

$$\frac{12x^3 + 8x^2 - x - 3}{-3x - 2} =$$

$$f(x) = -2x^3 - 5x^2 + 3x - 4$$

3.	Calculate	z_1	+	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where
----	-----------	-------	---	---------	-------	-------------	-----	---------------------	-------

$$z_1 = 3 + 2i$$

$$z_2 = 4 - 4i$$

$$f(x) = x^3 - 4x^2 + 9x + 164$$



Quiz ID: 117

T2 1: 1 NI	Chinese Name:
English Name:	Chinese Name:

1. Calculate the following division:

$$\frac{-2x^3 + 5x^2 + 28x + 4}{2x + 5} =$$

$$f(x) = -5x^3 + 3x - 2$$

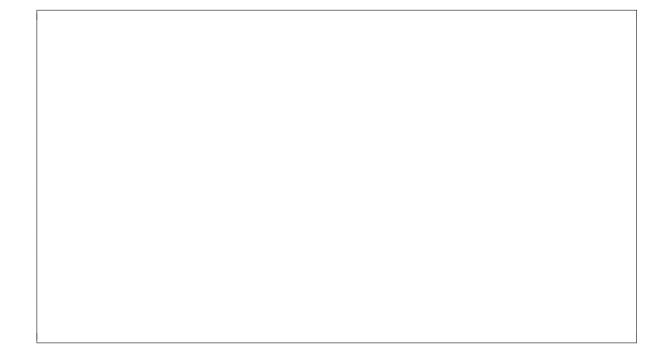
3. Calculate
$$z_1 + z_2$$
, $z_1 \cdot z_2$ and $\frac{z_1}{z_2}$, where:

$$z_1 = -2 - 1i$$

$$z_2 = -3 - 1i$$

4. Given that x = 2 is a root of f(x), find the other two roots.

$$f(x) = x^3 + 2x^2 + 12x - 40$$



Quiz ID: 118

English Name:	Chinese Name:				
1. Calculate the following division:	$\frac{25x^3 + 10x^2 - 28x}{-5x + 1} =$				
2. Calculate $f(1)$ using Synthetic Divisi	on and the Remainder Theorem, where				
	$f(x) = x^3 + x^2 - 3$				

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = -1 + 1i$$

$$z_2 = -4 - 1i$$

4. Given that x = -4 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 11x + 20$$



Quiz ID: 119

English Name:	Chinese Name:
0	

1. Calculate the following division:

$$\frac{x^3 - x^2 + 8x + 2}{-x - 1} =$$

$$f(x) = 2x^3 + 4x^2 + 2x$$

3. Calculate
$$z_1 + z_2$$
, $z_1 \cdot z_2$ and $\frac{z_1}{z_2}$, where:

$$z_1 = -3 - 3i$$

$$z_2 = -5 - 2i$$

4	Given that $r = -4$ is a root of $f(r)$	find the other two roots

$$f(x) = x^3 - 6x^2 + 10x + 200$$

Quiz ID: 120

English Name: _	 Chinese Name:	

1. Calculate the following division:

$$\frac{-3x^3 + 3x^2 + 7x + 3}{-3x} =$$

$$f(x) = -2x^3 - 4x^2 - x - 3$$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = -4 - 4i$$

$$z_2 = -5 + 3i$$

4. Given that x = 2 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 4x^2 + 14x - 20$$

Quiz ID: 121

English Name:	Chinese Name:

1. Calculate the following division:

$$\frac{x^3 + x^2 - 2}{x} =$$

$$f(x) = 2x^3 + 2x^2 - 3x - 2$$

3.	Calculate	z_1	+	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where
----	-----------	-------	---	---------	-------	-------------	-----	---------------------	-------

$$z_1 = 3 + 3i$$

$$z_2 = 4 + 1i$$

4. Given that x = -1 is a root of f(x), find the other two roots.

$$f(x) = x^3 + 11x^2 + 36x + 26$$



Quiz ID: 122

English Name:	Chinese Name:

1. Calculate the following division:

$$\frac{12x^3 - 10x^2 + 7x - 4}{-3x + 1} =$$

$$f(x) = 4x^3 - x^2 - 3x - 5$$

3. Calculate
$$z_1 + z_2$$
, $z_1 \cdot z_2$ and $\frac{z_1}{z_2}$, where:

$$z_1 = -2 + 2i$$

$$z_2 = -1 - 3i$$

4. Given that x = -2 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 8x^2 + 9x + 58$$

Quiz ID: 123

English Name:	_ Chinese Name:
1. Calculate the following division:	$\frac{-20x^3 - 4x^2 - 4x - 1}{-4x} =$
2. Calculate $f(1)$ using Synthetic Division	

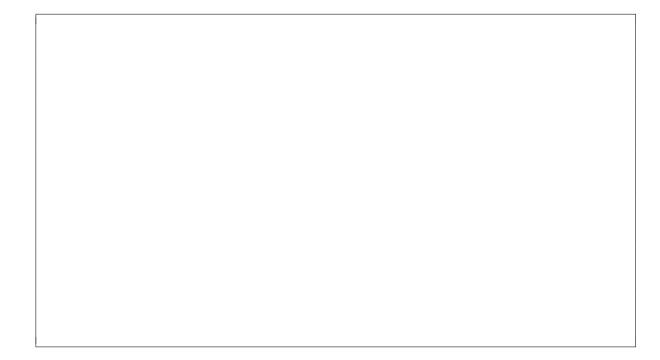
$$f(x) = 3x^3 + 3x^2 + 2x + 1$$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -2 - 2i$$

$$z_2 = 4 + 3i$$

$$f(x) = x^3 + 3x^2 + 50$$



Quiz ID: 124

English Name:	Chinese Name:
1. Calculate the following division:	$\frac{12x^3 + 11x^2 - 16x + 8}{-3x + 1} =$
2. Calculate $f(1)$ using Synthetic Div	vision and the Remainder Theorem, where
	$f(x) = 4x^3 - 2x^2 + 5x + 1$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = 5 - 1i$$

$$z_2 = -5 + 1i$$

4. Given that x = -1 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 5x^2 + 12x + 18$$

Page 48

Quiz ID: 125	
English Name:	Chinese Name:
1. Calculate the following division	$\frac{15x^3 + 5x^2 - 28x - 13}{5x + 5} =$
2. Calculate $f(1)$ using Synthetic	Division and the Remainder Theorem, where
	$f(x) = 3x^3 - 3x^2 + 4$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = -5 - 2i$$

$$z_2 = -5 - 5i$$

4. Given that x = 1 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 11x^2 + 44x - 34$$



Quiz ID: 126

English Name:	 Chinese Name:	

1. Calculate the following division:

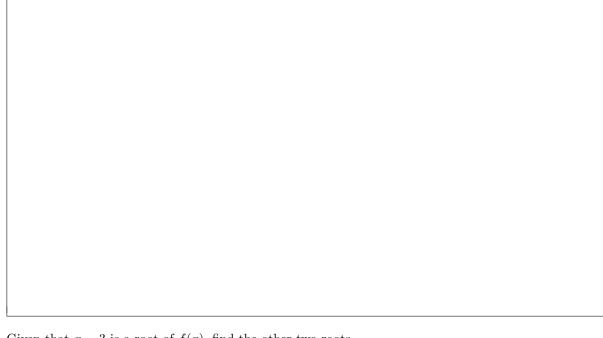
$$\frac{-15x^3 - 14x^2 + 3x + 1}{-3x - 4} =$$

$$f(x) = -x^3 - 4x^2 + 4x$$

3.	Calculate	z_1	+	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where
----	-----------	-------	---	---------	-------	-------------	-----	---------------------	-------

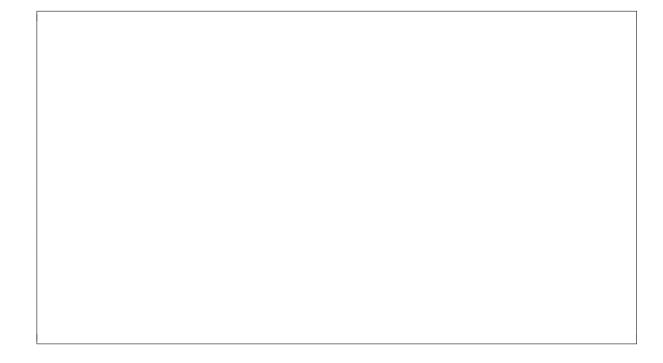
$$z_1 = -4 + 5i$$

$$z_2 = -1 + 2i$$



4. Given that x = 3 is a root of f(x), find the other two roots.

$$f(x) = x^3 + 7x^2 + 11x - 123$$



Quiz ID: 127

English Name:	Chinese Name:

1. Calculate the following division:

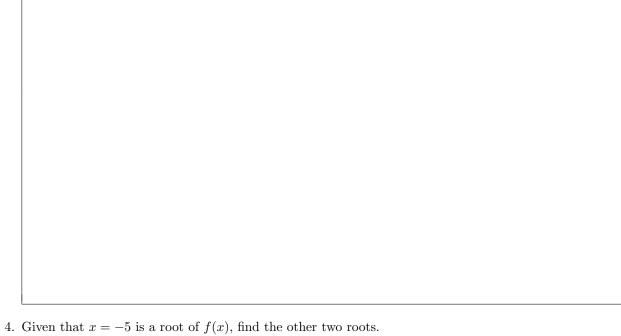
$$\frac{6x^3 - 11x^2 + 3x + 3}{2x - 1} =$$

$$f(x) = -x^3 + 5x^2 + 3x + 2$$

3.	Calculate	z_1	+ ;	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	-----	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = 5 + 5i$$

$$z_2 = 4 + 2i$$



$$f(x) = x^3 + 7x^2 + 36x + 130$$

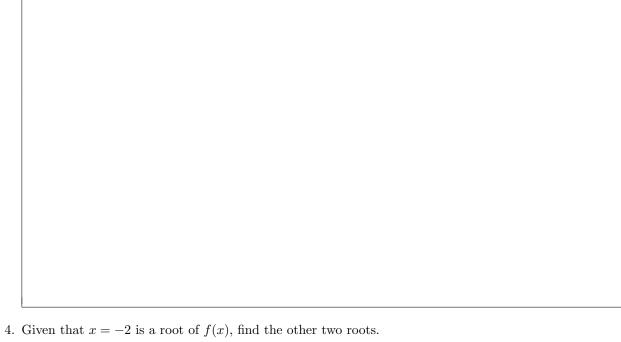


Quiz ID: 128	
English Name:	Chinese Name:
1. Calculate the following division:	
1. Calculate the following division.	$\frac{2x^3 - 8x^2 + 13x - 7}{-2x + 2} =$
2. Calculate $f(-1)$ using Synthetic Div	rision and the Remainder Theorem, where
	$f(x) = 5x^3 - 2x - 5$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = 3 + 5i$$

$$z_2 = 3 + 3i$$



$$f(x) = x^3 + 4x^2 + 14x + 20$$



Quiz ID: 129

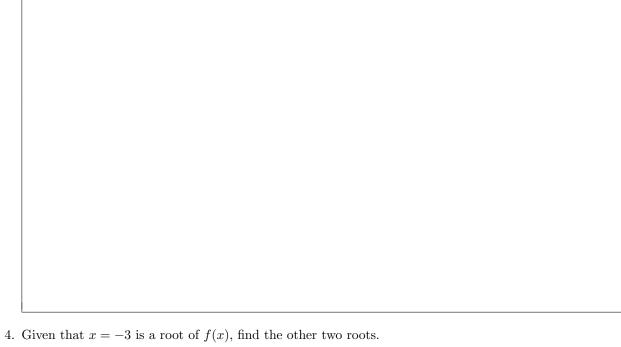
English Name:	Chinese Name:
1. Calculate the following division:	$\frac{-4x^3 + 20x^2 - 20x - 1}{-x + 4} =$
	-x+4

$$f(x) = 2x^3 + 5x^2 - 5x - 4$$

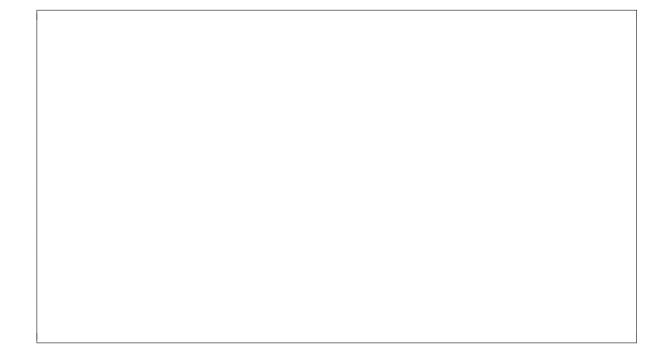
3.	Calculate	z_1	+	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where
----	-----------	-------	---	---------	-------	-------------	-----	---------------------	-------

$$z_1 = 3 + 2i$$

$$z_2 = 1 + 4i$$



$$f(x) = x^3 - 5x^2 + 17x + 123$$



Quiz ID: 130

English Name:	Chinese Name:							
1. Calculate the following division:	$\frac{15x^3 - 23x^2 - 3x + 15}{-3x + 4} =$							
2. Calculate $f(1)$ using Synthetic Division and the Remainder Theorem, where								
	$f(x) = x^3 - x^2 - 3x + 1$							

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -5 + 3i$$

$$z_2 = 1 + 3i$$

4. Given that
$$x = 3$$
 is a root of $f(x)$, find the other two roots.

$$f(x) = x^3 - 11x^2 + 49x - 75$$



Quiz ID: 131

English Name:	Chinese Name:
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1. Calculate the following division:

$$\frac{20x^3 + 41x^2 + 15x - 6}{-4x - 5} =$$

$$f(x) = 5x^3 + 5x^2 - x + 3$$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -2 - 3i$$

$$z_2 = 2 - 5i$$

4. Given that x = -1 is a root of f(x), find the other two roots.

$$f(x) = x^3 + 5x^2 + 17x + 13$$

Quiz ID: 132

English Name:	Chinese Name:
1. Calculate the following division:	$\frac{6x^3 + 20x^2 + 17x - 2}{-3x - 4} =$

$$f(x) = -2x^3 - 4x^2 + 5x - 4$$

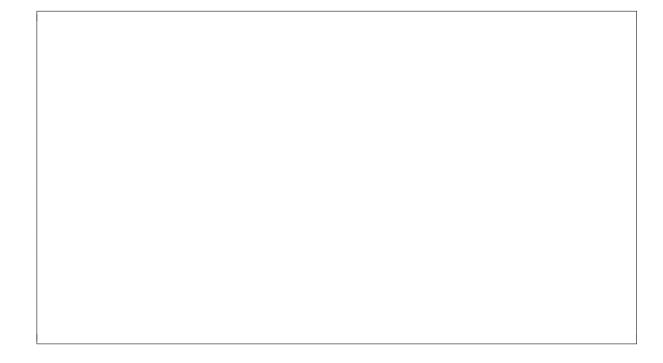
3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -5 - 4i$$

$$z_2 = 4 + 4i$$

Given that $r = -3$ is a root of $f(r)$ find the other two roots							

$$f(x) = x^3 + 13x^2 + 80x + 150$$



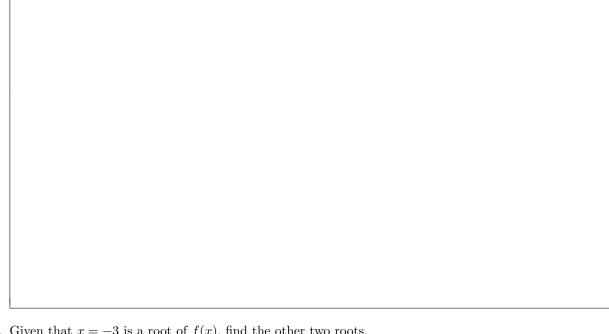
Quiz ID: 133

English Name:	Chinese Name:
1. Calculate the following division:	$\frac{-6x^3 + 5x^2 + 4x - 3}{2x - 1} =$
	2x-1
2. Calculate $f(-1)$ using Synthetic Di	vision and the Remainder Theorem, where $f(x) = 4x^3 + 4x^2 - 2x$
	J (~) 1

3. Calculate
$$z_1 + z_2$$
, $z_1 \cdot z_2$ and $\frac{z_1}{z_2}$, where:

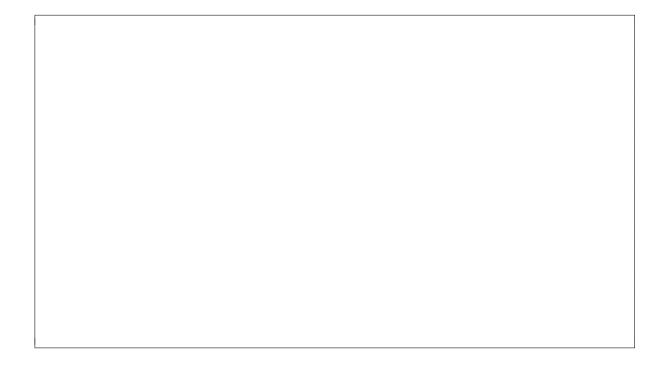
$$z_1 = -3 - 4i$$

$$z_2 = 3 - 3i$$



4. Given that x = -3 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 5x^2 + 8x + 96$$



Quiz ID: 134

English Name:	Chinese Name:

1. Calculate the following division:

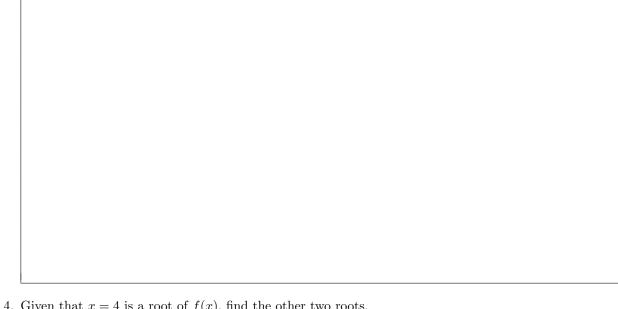
$$\frac{-9x^3 + 9x^2 - 9x + 15}{3x - 4} =$$

$$f(x) = 3x^3 - 2x^2 + 5x + 3$$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

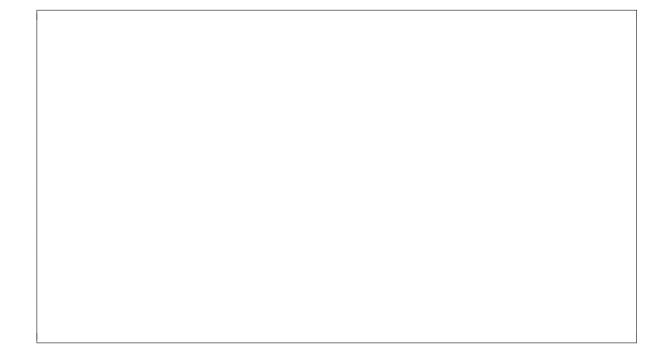
$$z_1 = -3 - 1i$$

$$z_2 = -1 + 5i$$



4. Given that x = 4 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 12x^2 + 52x - 80$$



$\frac{x^3 - 2x^2 - 9x - 16}{-2x + 4} =$
and the Remainder Theorem, where
$=3x^3 - 5x^2 + 5x - 5$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = 5 - 4i$$

$$z_2 = -5 - 5i$$

4. Given that x = -4 is a root of f(x), find the other two roots.

$$f(x) = x^3 + 12x^2 + 73x + 164$$

Quiz ID: 136

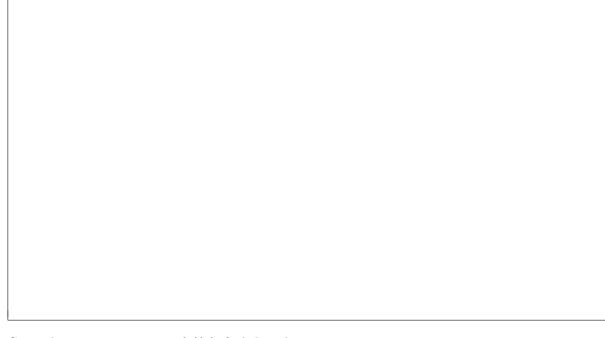
English Name:	Chinese Name:				
1. Calculate the following division:	$\frac{-4x^3 - 4x^2 + 3x - 27}{2x + 5} =$				

$$f(x) = -5x^3 - x^2 - 3$$

3.	Calculate	z_1	+	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where
----	-----------	-------	---	---------	-------	-------------	-----	---------------------	-------

$$z_1 = 2 + 5i$$

$$z_2 = -1 - 4i$$



4. Given that x = -5 is a root of f(x), find the other two roots.

$$f(x) = x^3 + 15x^2 + 76x + 130$$



Quiz ID: 137

English Name:	Chinese Name:

1. Calculate the following division:

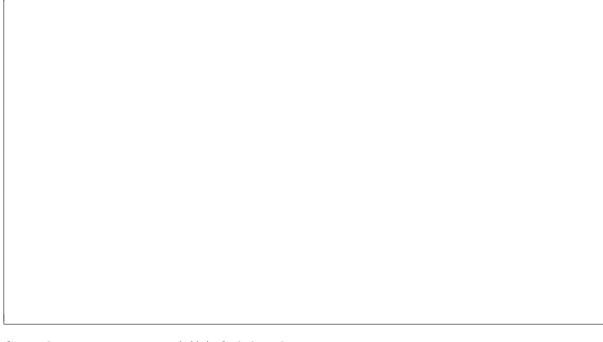
$$\frac{-9x^3+3x^2+14x-17}{3x-3}=$$

$$f(x) = -5x^3 - 2x^2 - 5x - 5$$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -5 + 3i$$

$$z_2 = -1 - 4i$$



4. Given that x = -2 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 8x^2 + 30x + 100$$



Quiz ID: 138	
English Name:	Chinese Name:
1. Calculate the following division:	
1. Calculate the following division:	$\frac{20x^3 - 20x^2 + 19x + 5}{-5x} =$
2. Calculate $f(1)$ using Synthetic Divis	sion and the Remainder Theorem, where
	$f(x) = -x^3 + 2x^2 - 3x - 5$

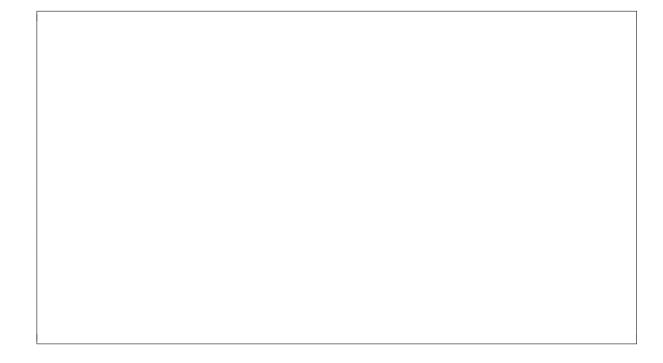
3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = 3 - 1i$$

$$z_2 = 5 + 2i$$

4. Given that
$$x = -1$$
 is a root of $f(x)$, find the other two roots.

$$f(x) = x^3 - x^2 + 15x + 17$$



Quiz ID: 139

English Name:	Chinese Name:

1. Calculate the following division:

$$\frac{-9x^3 + 9x^2 + 4x - 7}{3x - 2} =$$

$$f(x) = -3x^3 - 2x^2 - 5x + 4$$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = 1 - 2i$$

$$z_2 = 2 + 1i$$

4. Given that x = -1 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 7x^2 + 17x + 25$$

Quiz ID: 140

English Name:	Chinese Name:

1. Calculate the following division:

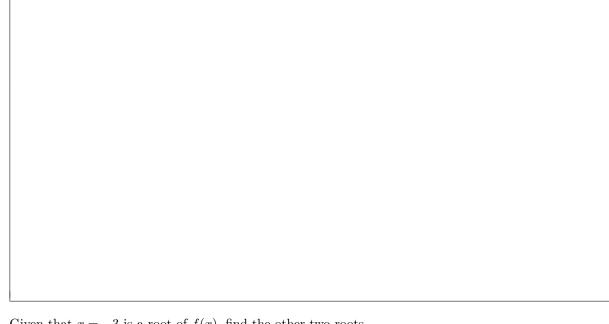
$$\frac{3x^3 + 5x^2 - 5x - 3}{-x - 1} =$$

$$f(x) = x^3 - 2x^2 + 4x + 3$$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = 3 - 2i$$

$$z_2 = 5 - 4i$$



4. Given that x = -3 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 3x^2 + 16x + 102$$



Quiz ID: 141

English Name:	Chinese Name:

1. Calculate the following division:

$$\frac{-15x^3 + 17x^2 + 3x - 8}{3x - 4} =$$

$$f(x) = -2x^3 + 3x + 4$$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -2 - 4i$$

$$z_2 = 2 + 5i$$

4. Given that
$$x = -4$$
 is a root of $f(x)$, find the other two roots.

$$f(x) = x^3 - 2x^2 - 14x + 40$$

Quiz ID: 142

English Name:	Chinese Name:

1. Calculate the following division:

$$\frac{12x^3 - 9x^2 - 16x - 5}{-4x - 1} =$$

$$f(x) = -x^3 + x^2 + 5x - 4$$

3. Calculate
$$z_1 + z_2$$
, $z_1 \cdot z_2$ and $\frac{z_1}{z_2}$, where:

$$z_1 = -2 - 1i$$

$$z_2 = 4 - 5i$$



4. Given that x = -2 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 4x^2 + 6x + 36$$



Quiz ID: 143

1. Calculate the following division:

$$\frac{-25x^3 + 10x^2 - 16x + 5}{-5x + 2} =$$

$$f(x) = -x^3 + 5$$

3. Calculate
$$z_1 + z_2$$
, $z_1 \cdot z_2$ and $\frac{z_1}{z_2}$, where:

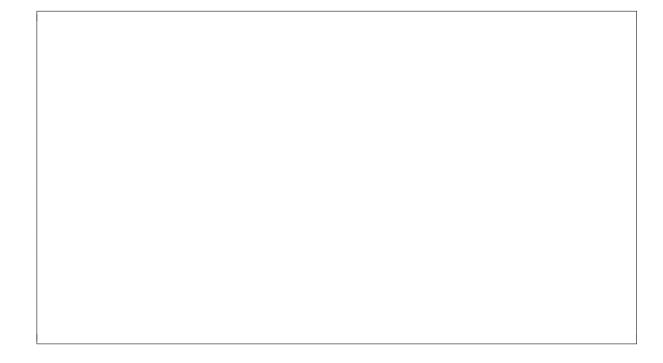
$$z_1 = 4 - 2i$$

$$z_2 = 2 + 5i$$

Given that $x = -3$ is a ro	oot of $f(x)$, find the a	other two roots.	

4.

$$f(x) = x^3 - 5x^2 - 4x + 60$$



Quiz ID: 144

English Name:	Chinese Name:							
1. Calculate the following division:	$\frac{16x^3 + 24x^2 - 4x - 19}{4x + 4} =$							
2. Calculate $f(-1)$ using Synthetic Division and the Remainder Theorem, where								
	$f(x) = 3x^3 + 4x^2 - 4x - 5$							

3.	Calculate	z_1	+	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where
----	-----------	-------	---	---------	-------	-------------	-----	---------------------	-------

$$z_1 = 4 + 1i$$

$$z_2 = -5 + 2i$$

4. Given that x = 1 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 9x^2 + 40x - 32$$

Quiz ID: 145	
English Name:	Chinese Name:
1. Calculate the following division:	
· ·	$\frac{25x^3 + 15x^2 + 8x + 6}{5x + 2} =$
2. Calculate $f(1)$ using Synthetic Divisi	ion and the Remainder Theorem, where
	$f(x) = -5x^3 + x^2 - 5$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = -4 - 5i$$

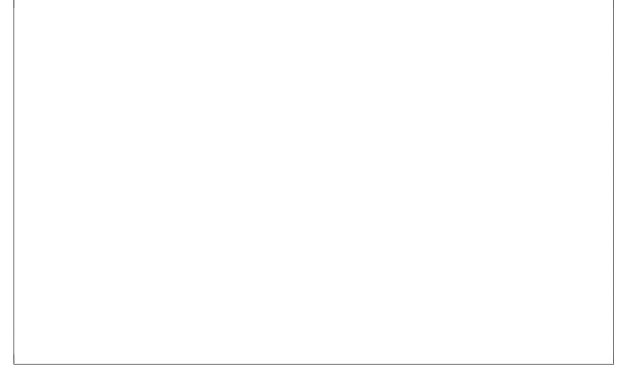
$$z_2 = -2 + 2i$$

4	C: 11 1		C C C C C C	.1 .1	
4	Given that $x = -1$	is a root	of $t(x)$ find	the other 1	two roots
	GIVOII UIIGU W	10 00 1000	$\sigma_{ij}(\omega)$, $m_{ij}(\omega)$	one ounci	tito roots.

$$f(x) = x^3 + 9x^2 + 49x + 41$$

Quiz ID: 146

English Name:	Chinese Name:
1. Calculate the following division:	$4m^3 - 18m^2 + 12m - 2$



$$f(x) = -x^3 + 4x^2 - 3x$$

3.	Calculate	z_1	+	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where
----	-----------	-------	---	---------	-------	-------------	-----	---------------------	-------

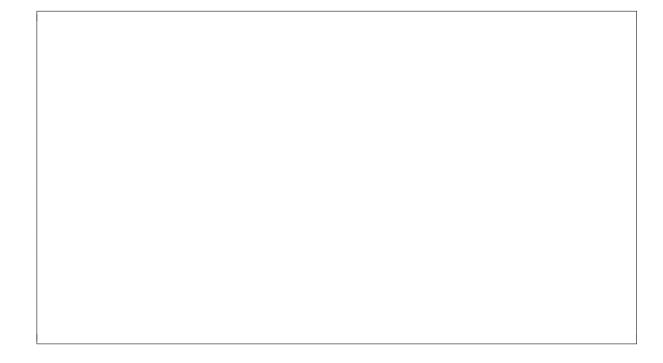
$$z_1 = -2 + 4i$$

$$z_2 = -4 + 4i$$



4. Given that x = 4 is a root of f(x), find the other two roots.

$$f(x) = x^3 + 4x^2 - 7x - 100$$



Quiz ID: 147

English Name: Ch	ninese Name:
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1. Calculate the following division:

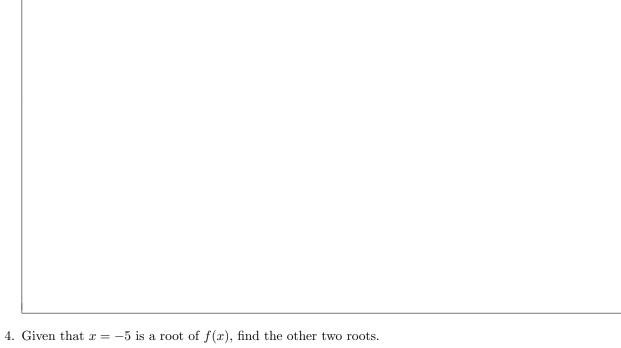
$$\frac{20x^3 + 7x^2 + 9x}{-4x + 1} =$$

$$f(x) = 4x^3 + 4x^2 - x - 2$$

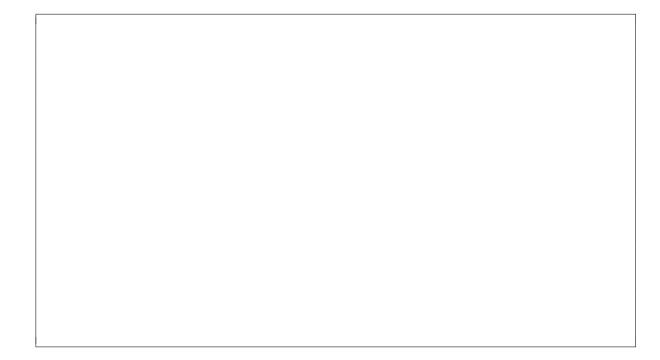
3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = 4 + 2i$$

$$z_2 = -1 + 1i$$



$$f(x) = x^3 + 11x^2 + 64x + 170$$



Quiz ID: 148

English Name:	Chinese Name:

1. Calculate the following division:

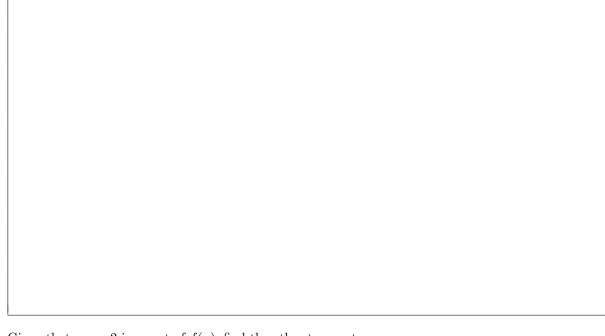
$$\frac{-5x^3 - 17x + 23}{5x - 5} =$$

$$f(x) = -4x^3 - 4x - 5$$

3.	Calculate	z_1	+	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where
----	-----------	-------	---	---------	-------	-------------	-----	---------------------	-------

$$z_1 = 1 - 1i$$

$$z_2 = -1 - 1i$$



4. Given that x = -2 is a root of f(x), find the other two roots.

$$f(x) = x^3 + 6x^2 + 16x + 16$$



Quiz ID: 149

English Name:	Chinese Name:	_

1. Calculate the following division:

$$\frac{3x^3 - 7x^2 - 8x + 8}{x - 3} =$$

$$f(x) = 3x^3 + x^2 - 5x - 4$$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = -1 + 2i$$

$$z_2 = -5 + 5i$$

Given that $x = -2$ is	a root of $f(x)$ find	d the other two re	nots	

$$f(x) = x^3 + 8x^2 + 46x + 68$$



Quiz ID: 150

English Name:	Chinese Name:
1. Calculate the following division:	$\frac{15x^3 - 17x^2 + 8x - 24}{-3x + 4} =$
2. Calculate $f(1)$ using Synthetic Divisio	n and the Remainder Theorem, where

$$f(x) = -x^3 - x^2 + 5x + 4$$

3. Calculate
$$z_1 + z_2$$
, $z_1 \cdot z_2$ and $\frac{z_1}{z_2}$, where:

$$z_1 = 3 - 5i$$

$$z_2 = -3 + 3i$$

4. Given that x = -4 is a root of f(x), find the other two roots.

$$f(x) = x^3 + 2x^2 - 3x + 20$$

Quiz ID: 151

English Name: Chinese Name:	
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1. Calculate the following division:

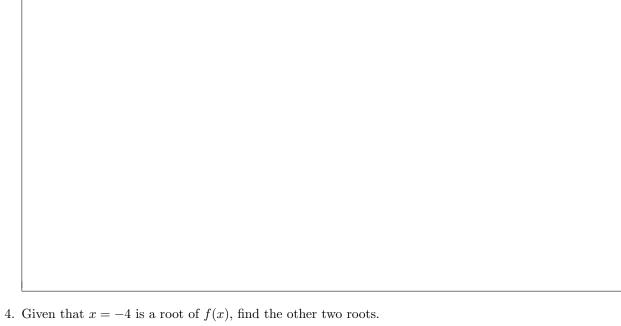
$$\frac{-10x^3 + 15x^2 + 15x - 1}{-5x - 5} =$$

$$f(x) = 4x^3 + x^2 - 3x + 3$$

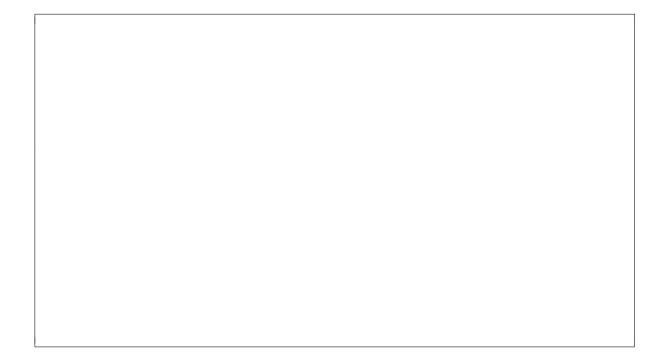
3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = 2 - 5i$$

$$z_2 = 4 - 1i$$



$$f(x) = x^3 + 12x^2 + 52x + 80$$



Quiz ID: 152

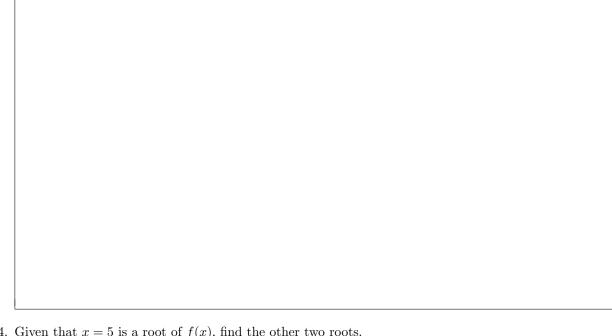
Eng	dish Name:	Chinese Name:
1.	Calculate the following division:	ar 3 . aa 2 . a .
		$\frac{15x^3 + 26x^2 + 17x + 15}{-3x - 4} =$

$$f(x) = x^3 + 2x^2 - 2x + 2$$

3.	Calculate	z_1	+	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where
----	-----------	-------	---	---------	-------	-------------	-----	---------------------	-------

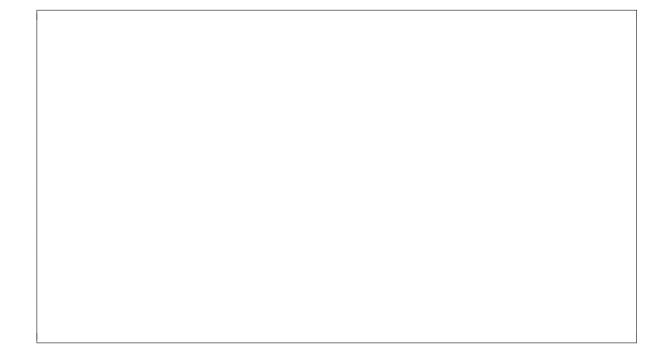
$$z_1 = 5 + 5i$$

$$z_2 = 3 - 3i$$



4. Given that x = 5 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 3x^2 - 5x - 25$$



Quiz ID: 153

English Name:	Chinese Name:
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1. Calculate the following division:

$$\frac{-4x^3 - 8x^2 + 4x + 4}{-2x} =$$

$$f(x) = -3x^3 - x^2 - x - 3$$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = 1 - 3i$$

$$z_2 = -1 + 2i$$

4. Given that x = 5 is a root of f(x), find the other two roots.

$$f(x) = x^3 + 3x^2 + x - 205$$

Quiz ID: 154

English Name:	C	hinese Name:	
English Name.		innese maine.	

1. Calculate the following division:

$$\frac{-2x^3 + 5x^2 - 12x + 5}{2x - 1} =$$

$$f(x) = -3x^3 + 5x^2 - 3x - 5$$

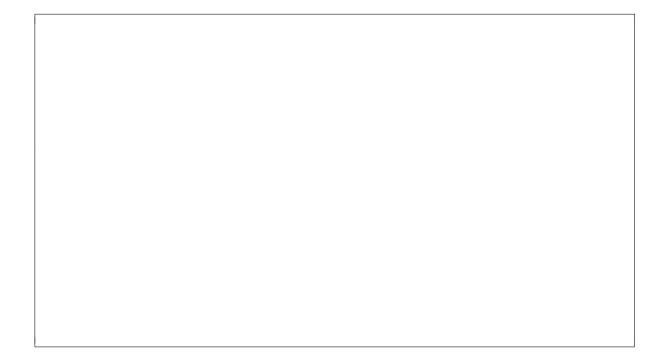
3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -5 + 1i$$

$$z_2 = -1 - 1i$$

4. Given that x = 4 is a root of f(x), find the other two roots.

$$f(x) = x^3 + 4x^2 + 9x - 164$$



Quiz ID: 155

English Name:	Chinese Name:

1. Calculate the following division:

$$\frac{-16x^3 + 16x^2 + 13x + 4}{-4x} =$$

$$f(x) = x^3 - 2x^2 - x - 5$$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -4 - 2i$$

$$z_2 = 2 + 4i$$

4.

$$f(x) = x^3 + x^2 - 2$$



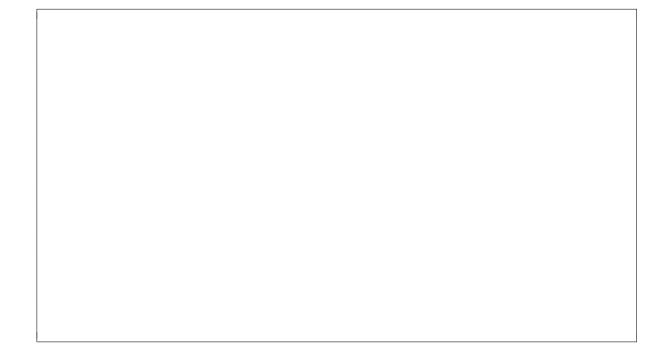
Quiz ID: 156	
English Name:	Chinese Name:
1. Calculate the following division:	$\frac{16x^3 - 9x - 9}{-4x + 4} =$
2. Calculate $f(1)$ using Synthetic Divisio	
	$f(x) = 5x^3 + x^2 + 4x + 3$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -3 - 1i$$

$$z_2 = 3 - 3i$$

$$f(x) = x^3 + 4x + 80$$



Quiz ID: 157

English Name:	Chinese Name:	

1. Calculate the following division:

$$\frac{12x^3 - 11x^2 + 5x - 3}{-4x + 1} =$$

$$f(x) = -5x^3 + 4x^2 + x + 2$$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

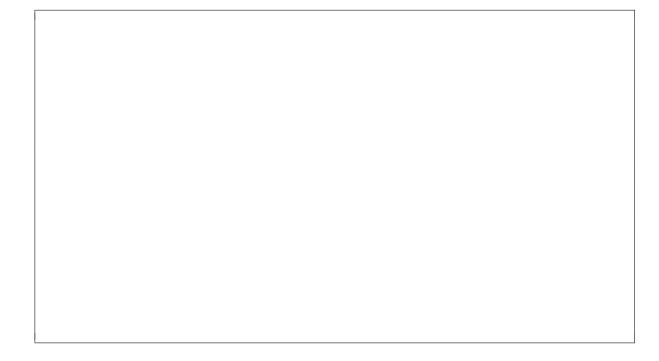
$$z_1 = -4 - 2i$$

$$z_2 = -1 - 5i$$



4. Given that x = 4 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 14x^2 + 74x - 136$$

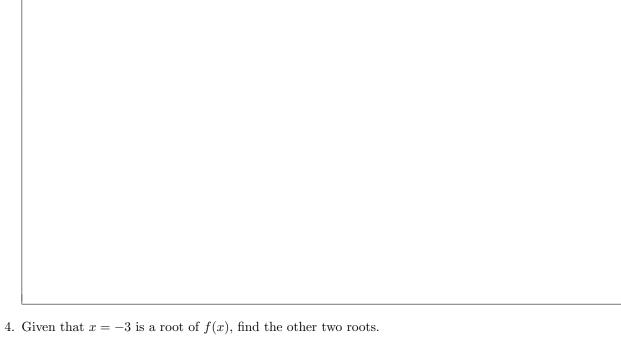


Quiz ID: 158 English Name:	Chinese Name:
1. Calculate the following division:	$\frac{9x^3 - 3x^2 - 22x + 4}{-3x + 4} =$
2. Calculate $f(-1)$ using Synthetic Divis	sion and the Remainder Theorem, where
	$f(x) = 4x^3 - 3x^2 - x - 4$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = 2 - 5i$$

$$z_2 = 2 - 4i$$



$$f(x) = x^3 + 13x^2 + 71x + 123$$



Quiz ID: 159

$\frac{+18x+18}{-5} =$
mainder Theorem, where
$+5x^2 - 4x - 3$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -5 + 2i$$

$$z_2 = 5 - 4i$$

$$f(x) = x^3 - 5x^2 - 9x + 205$$



Quiz ID: 160

English Name:	Chinese Name:

1. Calculate the following division:

$$\frac{4x^3 + 12x^2 + 15x + 6}{-4x - 4} =$$

$$f(x) = x^3 - x^2 - 5x + 2$$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -1 + 2i$$

$$z_2 = 3 + 4i$$

 $f(x) = x^3 + 3x^2 - 23x - 85$

4. Given that
$$x = 5$$
 is a root of $f(x)$, find the other two roots.

Quiz ID: 161

English Name: Chinese Name:	
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1. Calculate the following division:

$$\frac{-12x^3+11x^2-7x+22}{4x-5}=$$

$$f(x) = -2x^3 + 2x^2 + x - 5$$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -4 - 3i$$

$$z_2 = -2 - 4i$$

4. Given that x = 2 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 8x^2 + 46x - 68$$

Quiz ID: 162

English Name:	Chinese Name:
1. Calculate the following division:	$\frac{-3x^3 + 9x + 3}{-3x} =$

$$f(x) = -2x^3 + 5x^2 - x + 3$$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = 4 + 1i$$

$$z_2 = -3 + 2i$$

 $f(x) = x^3 - 10x^2 + 37x - 52$

4. Given that
$$x = 4$$
 is a root of $f(x)$, find the other two roots.

Quiz ID: 163

English Name:	_ Chinese Name:
1. Calculate the following division:	$\frac{12x^3 - 18x^2 + 7x + 3}{4x - 2} =$

$$f(x) = -5x^3 + x^2 + 2x - 5$$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = 1 + 2i$$

$$z_2 = 1 - 5i$$

Given that $x = -3$ is a root of $f(x)$ find the other two roots

$$f(x) = x^3 - 5x^2 + 8x + 96$$



Quiz ID: 164

English Name: Chinese Name:	
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1. Calculate the following division:

$$\frac{-20x^3 + 3x^2 + 23x - 7}{4x - 3} =$$

$$f(x) = x^3 - 4x^2 + 2x + 4$$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = -4 + 2i$$

$$z_2 = -4 - 3i$$

4. Given that x = 1 is a root of f(x), find the other two roots.

$$f(x) = x^3 - 7x^2 + 24x - 18$$

Quiz	$\mathbf{ID} \cdot$	165
Quiz	11):	TOO

nglish Name:	Chinese Name:	
1. Calculate the following division:	$\frac{20x^3 - 11x^2 - 28x + 18}{-5x + 4} =$	
2. Calculate $f(-1)$ using Synthetic D	Division and the Remainder Theorem, where	
	$f(x) = 3x^3 - x - 2$	

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = -3 - 2i$$

$$z_2 = -5 + 5i$$

4	Given that $r=1$ is a root of $f(r)$ find the other two roots

$$f(x) = x^3 - 7x^2 + 19x - 13$$

Quiz ID: 166

T2 1: 1 NI	CII: N
English Name:	Chinese Name:

1. Calculate the following division:

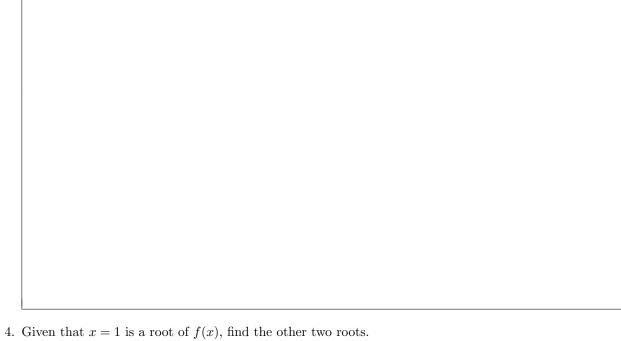
$$\frac{-10x^3 - 14x - 16}{-5x - 5} =$$

$$f(x) = 3x^3 - x^2 - 5x + 4$$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -5 - 4i$$

$$z_2 = -4 + 2i$$



$$f(x) = x^3 + 3x^2 + x - 5$$



Quiz ID: 167

English Name:	Chinese Name:
0	

1. Calculate the following division:

$$\frac{-20x^3 + 15x^2 - 11x + 3}{-5x} =$$

$$f(x) = -4x^3 + 3x - 3$$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = -4 + 1i$$

$$z_2 = 3 - 3i$$

4. Given that
$$x=5$$
 is a root of $f(x)$, find the other two roots.

$$f(x) = x^3 - x^2 - 12x - 40$$



Quiz ID: 168

English Name:	Chinese Name:

1. Calculate the following division:

$$\frac{-5x^3 - 19x^2 - 5x - 21}{x + 4} =$$

$$f(x) = 4x^3 - x^2 - 4x - 1$$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = -5 + 2i$$

$$z_2 = -1 + 4i$$

4. Given that
$$x = 4$$
 is a root of $f(x)$, find the other two roots.

4. Given that x = 4 is a root of f(x), find the other two roots.

$$f(x) = x^3 + 2x^2 - 6x - 72$$



Quiz ID: 169

English Name:	Chinese Name:
1. Calculate the following division:	$\frac{6x^3 + 19x^2 + 9x - 4}{-2x - 5} =$
2. Calculate $f(1)$ using Synthetic Divisi	on and the Remainder Theorem, where

$$f(x) = -3x^3 + 2x^2 + x - 1$$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = 5 - 5i$$

$$z_2 = 1 - 3i$$

Given that $x = 3$ is	a root of $f(x)$, find	the other two roo	ots.	

$$f(x) = x^3 + 5x^2 + 17x - 123$$



Quiz ID: 170

English Name:	Chinese Name:					
1. Calculate the following division	$\frac{-8x^3 + 4x^2 - 13x - 3}{4x} =$					

$$f(x) = 3x^3 + 5x^2 + 2x + 4$$

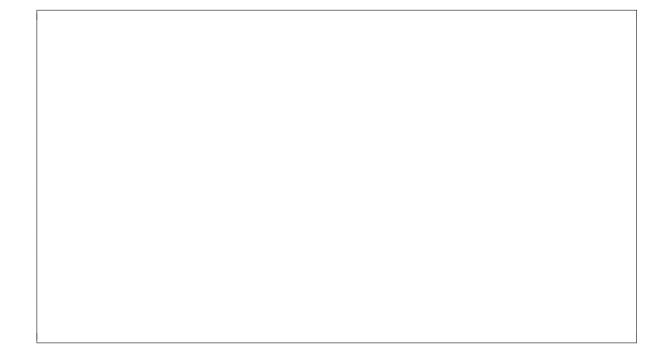
3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = -4 + 2i$$

$$z_2 = 3 + 2i$$

4. Given that x = -3 is a root of f(x), find the other two roots.

$$f(x) = x^3 - x^2 + x + 39$$



Quiz ID: 171

English Name:		Chinese Name:					
1. C	Calculate the following division:	$\frac{5x^3 + 4x^2 - 13x + 6}{-5x + 1} =$					

$$f(x) = 4x^3 + x^2 - 3x - 5$$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = -1 + 1i$$

$$z_2 = -1 - 2i$$

4. Given that
$$x = 5$$
 is a root of $f(x)$, find the other two roots.

$$f(x) = x^3 - 9x^2 + 25x - 25$$

Quiz ID: 172	
English Name:	Chinese Name:
1. Calculate the following division:	$\frac{3x^3 - 3x^2 - 4x - 12}{-x + 2} =$
2. Calculate $f(1)$ using Synthetic Divis	ion and the Remainder Theorem, where
	$f(x) = x^3 - 5x^2 + 3x - 3$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = 1 - 1i$$

$$z_2 = 2 - 4i$$

4. Given that x = -5 is a root of f(x), find the other two roots.

$$f(x) = x^3 + 7x^2 + 20x + 50$$

Quiz ID: 173

English Name:	Chinese Name:

1. Calculate the following division:

$$\frac{-10x^3 - 23x^2 - 13x - 3}{5x + 4} =$$

2. Calculate f(1) using Synthetic Division and the Remainder Theorem, where

$$f(x) = -3x^3 + 4x^2 - 4x - 1$$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -3 + 1i$$

$$z_2 = 5 - 2i$$

4. Given that
$$x = -4$$
 is a root of $f(x)$, find the other two roots.

$$f(x) = x^3 + 10x^2 + 42x + 72$$



Quiz ID: 174

English Name:	_ Chinese Name:
1. Calculate the following division:	$\frac{-5x^3 - 11x^2 + 2x + 13}{5x - 4} =$
	5x-4

2. Calculate f(-1) using Synthetic Division and the Remainder Theorem, where

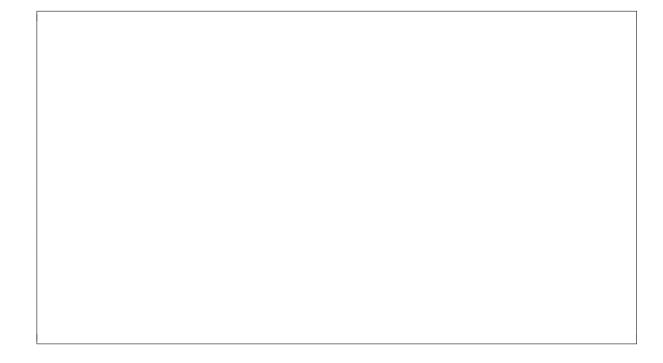
$$f(x) = 4x^3 - 3x^2 + 3x - 2$$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = -2 + 4i$$

$$z_2 = -5 - 1i$$

$$f(x) = x^3 + 6x^2 + 9x - 50$$



Quiz ID: 175

English Name:	Chinese Name:
1. Calculate the following division:	$\frac{5x^3 + 9x^2 - 12x + 2}{-5x + 1} =$

$$f(x) = 2x^3 - 3x^2 - 5x - 1$$

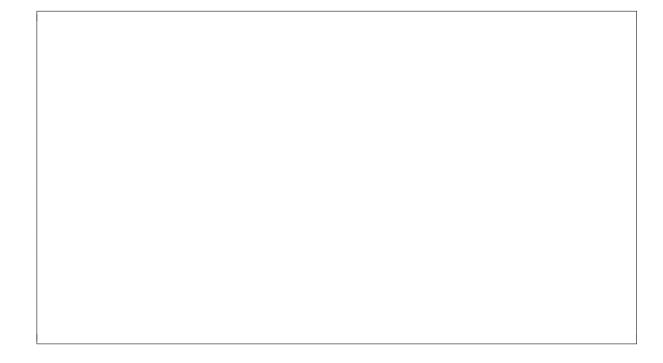
3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -5 - 4i$$

$$z_2 = 2 + 4i$$

4. Given that
$$x = 3$$
 is a root of $f(x)$, find the other two roots.

$$f(x) = x^3 - 11x^2 + 41x - 51$$



Quiz ID: 176

English Name:	Chinese Name:
1. Calculate the following division:	$\frac{10x^3 + 20x^2 - 6x - 23}{-2x - 4} =$
2. Calculate $f(1)$ using Synthetic Div	rision and the Remainder Theorem, where
	$f(x) = 5x^3 + 4x - 2$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -3 - 2i$$

$$z_2 = 4 + 2i$$

Given that
$$x = -1$$
 is a root of $f(x)$, find the other two roots.

4. Given that x = -1 is a root of f(x), find the other two roots.

$$f(x) = x^3 + 11x^2 + 60x + 50$$



Quiz ID: 177

Chinese Name:	_
$\frac{-5x^3 - 5x^2 + x - 3}{x} =$	
vision and the Remainder Theorem, where	

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = 4 - 4i$$

$$z_2 = 2 + 4i$$

Given that $x = -$	-2 is a root of $f(x)$,	find the other ty	wo roots.	

4.

$$f(x) = x^3 + 8x^2 + 37x + 50$$



Quiz ID: 178

English Name:	Chinese Name:

1. Calculate the following division:

$$\frac{x^3 + 3x^2 + x - 4}{x - 1} =$$

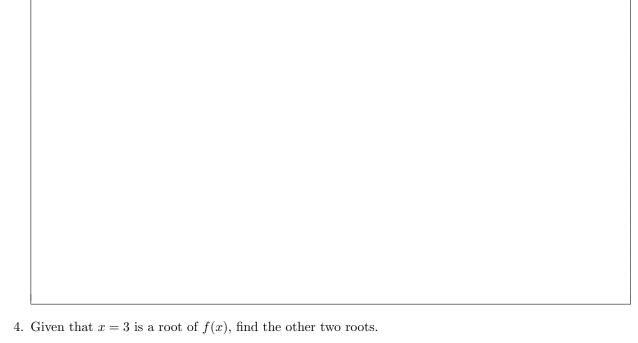
2. Calculate f(1) using Synthetic Division and the Remainder Theorem, where

$$f(x) = x^3 + 4x^2 + 1$$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = -3 + 2i$$

$$z_2 = -3 + 4i$$



$$f(x) = x^3 - 13x^2 + 80x - 150$$



Quiz ID: 179

English Name:	Chinese Name:

1. Calculate the following division:

$$\frac{-15x^3 + 9x^2 + 21x - 8}{-3x + 3} =$$

2. Calculate f(1) using Synthetic Division and the Remainder Theorem, where

$$f(x) = -x^3 - 2x^2 - 5x - 1$$

3.	Calculate	z_1	+	z_2 ,	z_1		z_2	and	$\frac{z_1}{z_2}$,	where:
----	-----------	-------	---	---------	-------	--	-------	-----	---------------------	--------

$$z_1 = -1 + 3i$$

$$z_2 = -4 - 1i$$

4.	Given that $x = -1$ is a root of $f(x)$, find the other two roots.

$$f(x) = x^3 - x^2 + 15x + 17$$



Quiz ID: 180

English Name:	Chinese Name:
9	

1. Calculate the following division:

$$\frac{-20x^3 + 20x^2 - 19x + 19}{-4x + 4} =$$

2. Calculate f(-1) using Synthetic Division and the Remainder Theorem, where

$$f(x) = x^3 + x^2 - x - 2$$

3.	Calculate	$z_1 +$	z_2 ,	z_1	$\cdot z_2$	and	$\frac{z_1}{z_2}$,	where:
----	-----------	---------	---------	-------	-------------	-----	---------------------	--------

$$z_1 = -5 - 1i$$

$$z_2 = -5 + 1i$$

irran that m — 5 is a m		

4. Given that x = -5 is a root of f(x), find the other two roots.

$$f(x) = x^3 + 15x^2 + 76x + 130$$

