2.5 Part 1

HW Check your outline pg 223-225

$(x+2)(x-1)(x-4)$

$(x^2-x+2x-2)(x-4)$

$2(x^3-3x^2-6x+8)$

$2x^3-6x^2-12x+16$

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$f(2)$

$(2)^3+3(2)-4$

$8+6-4=10$

Not a factor

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25) $(x+3)(x-1)(x-3.4)$

-3 | 5 −7 −49 51

↓ −15 66 −51 yes a factor

1 | 5 −22 17 0

5 −17

3.4 | 5 −17 | 0 yes factor

17

5 0 yes factor

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$f(x)=(x-2i)(x+2i)$

	x	$2i$
x	x^2	$2ix$
$-2i$	$-2ix$	$-4i^2$

$i^2=-1$

x^2+4

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Homework Questions

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2.5 Part 1

HW pg 233-236

QR 3,5,6 | EXS 1, 4, 11, 12, 14, 16-21
Quick Review 24, 33, 34, 38, 40, 41

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b $(x-5)(x-\sqrt{2}i)(x+\sqrt{2}i)$ *1st

	x	$\sqrt{2}i$
x	x^2	$\sqrt{2}ix$
$\sqrt{2}i$	$-\sqrt{2}ix$	$-2i^2$

$i^2=-1$

$-2 \cdot -1$

$(x^2+2)(x-5)$

	x	-5
x^2	x^3	$-5x^2$
2	$2x$	-10

$x^3-5x^2+2x-10$

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230
ex 2
$-3, 4, 2, -i, i$

$(x+3)(x-4)(x-2)(x+i)(x-i)$

	x	$-i$
x	x^2	$-ix$
i	ix	$-i^2$

$i^2=-1$

$-1 \cdot -1$

x^2+1

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ex 4 $x^5-3x^4-5x^3+5x^2-6x+8$

$x=-2, 1, 4$

-2	1	-3	-5	5	-6	8
x^5	↓	-2	10	-10	10	-8
	1	-5	5	-5	4	0
x^4	↓	1	-4	1	-4	
4	1	-4	1	-4	0	
x^3	↓	4	0	4		
	1	0	1	0		

x^2+0x+1

x^2+1

$(x+i)(x-i)(x-4)(x-1)(x+2)$

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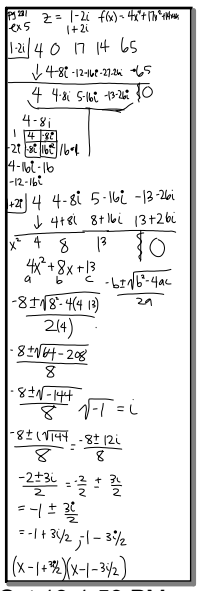

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