Na Nic	mekname:	Student No. Quiz No	G_ o.:	/	Date:	Score:
		oring using I				
A. 1	Factor completely the given polynomial expressions.					
1) x	$^{6}-64$	2) $-8x^6 - 63x^3 + 8$				
F	actored Form:		Factore	d Form:		
		Remainder	Theor	em		
В. О	Give the remainder of each of	f the following	express	sions t	ısing remai	nder theorem.
1) (:	$x^2 - 3x + 2) \div (2x - 1)$	4	$(2x^3 + 9)$	$9x^2 + 13$	$3x+6) \div (2x-$	- 3)
R	emainder:		Remain	der:		
		Factor T	heoren	n		
C. S	State if the given binomial is a factor of the given polynomial.					
1) (4	$4x^3 + 2x^2 - 14x - 12) \div (-x - 2)$	2	$(-2x^5 +$	$-5x^4 + 9$	$9x^3 - 19x^2 + x$	$+6) \div (2x+2)$

Answer:

Answer:

Rational Root Theorem

D. Identify the nature of the roots (table of variations), the number of roots (FTA), possible roots, actual roots and the factored form of the given polynomial.

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

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

FTA:
Factored form:
Actual roots:

FTA:

Factored form: Actual roots:

Graphing Polynomial

E. Give the possible roots (RRT), nature of roots (DRS), number of roots (FTA), factored form, actual roots, end behavior and graph of the given polynomial.

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

2) $f(x) = x^5 - 7x^4 + 18x^3 - 22x^2 + 13x - 3$

FTA: FTA:

Factored form:
Actual roots:
End Behavior:
End Behavior:
Factored form:
Actual roots:
End Behavior:

Graph: Graph: