Name Nickname:	Student No G/ Date:Scor	re:
	Factoring using Mixed Methods	
A. Factor completely the g	given polynomial expressions.	
1) $-x^6 - 26x^3 + 27$	2) $-27x^6 + 35x^3 - 8$	
Factored Form:	Factored Form:	

Remainder Theorem

Give the remainder of each of the following expressions using remainder theorem. В.

1)
$$(-x^2 + 5x - 6) \div (2x + 2)$$

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

Remainder:

Remainder:

Factor Theorem

State if the given binomial is a factor of the given polynomial. $\mathbf{C}.$

1)
$$(4x^5 + 24x^4 + 40x^3 - 44x - 24) \div (-2x - 3)$$

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$$(4x^5 + 24x^4 + 40x^3 - 44x - 24) \div (-2x - 3)$$
 2) $(-4x^5 + 6x^4 + 10x^3 - 10x^2 - 6x + 4) \div (-2x - 3)$

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

FTA:

Factored form: Actual roots:

FTA:

Factored form: Actual roots: