

HOMEWORK QUIZ – Real Zeros of Polynomials

Date:

Form A

Name

1. List the possible rational zeros of

$$f(x) = (6x^3 + 11x^2 - 37x + 18)$$

2. Find
- $f(-4)$
- using the Remainder Theorem for

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

3. Divide:
- $f(x) = (2x^4 + 4x^3 + 5x^2 - 3x - 2)$
- by
- $(x + 2)$

4. Write a polynomial function with leading coefficient
- -3
- that has zeros at
- $x = -2, 0, 1$

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Form B

Name

1. List the possible rational zeros of

$$f(x) = (4x^3 + 16x^2 - 23x - 15)$$

2. Find
- $f(3)$
- using the Remainder Theorem for

$$f(x) = 3x^3 + 5x^2 - 10x + 1$$

3. Divide:
- $f(x) = (2x^4 - 3x^3 + 4x^2 - 5x - 1)$
- by
- $(x + 3)$

4. Write a polynomial function with leading coefficient
- -2
- that has zeros at
- $x = -3, 0, 1$

Grade: