

A2: Finding Zeros of Polynomial Functions WKST 2

Find all zeros using the rational root theorem.

1. $f(x) = x^3 - 6x^2 + 11x - 6$

2. $f(x) = x^3 - 7x^2 + 15x - 9$

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

4. $f(x) = 8x^3 - 26x^2 + 3x + 9$

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

6. $f(x) = x^3 + 3x^2 - 25x + 21$

ANSWERS

1. $x = 1, 2, 3$

2. $x = 1, 3$ mult. 2

3. $x = -2, -\frac{1}{3}, \frac{1}{2}$

4. $x = -\frac{1}{2}, \frac{3}{4}, 3$

5. $x = -1$ mult. 3

6. $x = -7, 1, 3$