

Name _____

Due Date _____

Block _____

Rational Functions #2

Use the Rational Root Theorem and the Factor Theorem to factor each polynomial completely or determine if it is prime.

1. $P(x) = x^2 + 5x + 6$

2. $P(x) = 2x^2 - 5x - 3$

3. $P(x) = 6x^2 + 43x - 40$

4. $P(x) = 12x^2 - 26x - 16$

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

6. $P(x) = 6x^3 - x^2 - 47x + 30$