

Factoring Using Synthetic Division

Use synthetic division to factor the polynomials. **Hint:** Try factors of the constant term for your trial and error.

1. $2x^3 - 3x^2 - 3x + 2$

2. $x^3 - x^2 - x + 1$

3. $x^3 + 7x^2 + 7x - 15$

4. $x^3 - x^2 - 10x - 8$

5. $2x^3 - 3x^2 - 2x + 3$

6. $3x^3 - 13x^2 - 11x + 5$