

Pre-Calculus

Use polynomial long division to find the remainder of a given expression.

1. $(6x^3 - 7x^2 + 12x + 10) \div (3x + 1)$

2. $(4x^3 - 34x^2 + 76x - 10) \div (2x - 5)$

3. $(4x^3 - 77x^2 + 150x - 100) \div (4x - 5)$

4. $(6x^3 + 51x^2 - 17x - 450) \div (2x + 7)$

5. $(20x^3 - 32x^2 + 59x + 50) \div (5x + 2)$

6. $(6x^3 + 7x^2 - 206x + 240) \div (3x - 4)$

7. $(14x^3 - 5x^2 + 45x + 30) \div (2x + 1)$

8. $(9x^3 - 21x^2 - 25x + 25) \div (3x - 2)$

9. $(8x^3 - 22x^2 - 10x + 35) \div (4x - 7)$

10. $(14x^3 + 25x^2 - 30x - 20) \div (2x + 5)$