

Practice

1. Divide $x^2 + 3x + 5$ by $x + 1$

2. Simplify. $\frac{x^4 - 10x^2 - 2x + 4}{x + 3}$

3. $x - 5 \overline{) 3x^3 - 17x^2 + 15x - 25}$

4. Given $f(x) = 6x^3 - 19x^2 + 16x - 4$ and $f(2) = 0$. Factor $f(x)$ completely.

5. Is -2 a factor of $2x^3 + 9x^2 + 7x - 6$? If so, factor completely.