Polynomials

Advanced

Divide

1. *long division* $\dfrac{x^4 - 16}{x - 2}$

2. *long division* $\dfrac{x^3 - 9}{x - 3}$

3. *long division* $\dfrac{x^5 + 1}{x + 1}$

4. *long division* $\dfrac{2 - 4x^2}{x - 2}$

5. *long division* $\dfrac{\left(x^2 + 2x + 1\right)}{\left(x + 1\right)}$

6. *long division* $\dfrac{x^2 + x + 1}{x - 1}$

7. *long division* $\dfrac{x^3}{x^2 + 2}$

8. *long division* $\dfrac{x^3 - 64}{x - 4}$

9. *long division* $\dfrac{4x^4 + 3x^3 + x}{x^2 - 1}$

10. *long division* $\dfrac{x^3 + 5x^2 + 11x + 4}{x + 2}$

Answers

Polynomials

Advanced

Divide

1. $x^3 + 2x^2 + 4x + 8$

2. $x^2 + 3x + 9 + \dfrac{18}{x - 3}$

3. $x^4 - x^3 + x^2 - x + 1$

4. $-4x - 8 - \dfrac{14}{x - 2}$

5. $x + 1$

6. $x + 2 + \dfrac{3}{x - 1}$

7. $x - \dfrac{2x}{x^2 + 2}$

8. $x^2 + 4x + 16$

9. $4x^2 + 3x + 4 + \dfrac{4}{x - 1}$

10. $x^2 + 3x + 5 - \dfrac{6}{x + 2}$