

BECA / Huson / Algebra 2: Polynomials Jan 2023 Regents Name:
23 December 2023

Regents problems: Polynomials

1. Given $x > 0$, the expression $\frac{1}{x^2-1}$ can be rewritten as

(a) $\frac{3}{x} - 1$

(b) $\frac{2}{10x^3}$

(c) $\frac{10}{x^3}$

(d) $\frac{3}{x^{10}}$

2. Given $x > 0$, the expression $\frac{1}{\sqrt[3]{x^2}-1}$ can be rewritten as

(a) $\frac{1}{\sqrt[3]{x}-1}$

(b) $\frac{1}{\sqrt[3]{x}+1}$

(c) $\frac{1}{\sqrt{x}-1}$

(d) $\frac{1}{\sqrt{x}+1}$