

6. Simplify the complex fraction.

$$\frac{\frac{4}{x+4} - \frac{3}{x-4}}{\frac{4}{x^2-16}}$$

a. $\frac{12}{x^2-16}$

b. $\frac{4}{x-28}$

c. $\frac{x-28}{x^2-16}$

d. $\frac{x-28}{4}$

e. $\frac{x^2-16}{x-28}$

7. Perform the division.

$$x^3 + 1 \text{ divided by } x - 1$$

a. $x^2 - x + 1 + \frac{2}{x-1}$

b. $x^2 + x + 1$

c. $x^2 + x + 1 - \frac{2}{x-1}$

d. $x^2 + x + 1 + \frac{2}{x-1}$

e. $x^2 - x + 1$

8. Simplify the expression. Assume that b is unrestricted and use absolute value symbols if necessary.

$$\sqrt{(-10b)^2}$$

a. $100|b|$

b. $10|b|$

c. $10b$

d. $10b^2$

e. $100b$