

Arithmetic with Polynomials - Worksheet 6

Write the following polynomial quotients in the form $q(x) + \frac{r(x)}{b(x)}$.

1. $\frac{x^2 + 2x - 35}{x - 5}$.

6. $\frac{3x^3 + 5x^2}{x + 1}$.

2. $\frac{x^3 + 6x^2 - 8}{x^2 - 1}$.

7. $\frac{-x^3 + 3x}{x - 2}$.

3. $\frac{3x^4 + 4x^3 - 2x^2 + x - 3}{x - 5}$.

8. $\frac{-4x^3 + 3x - 1}{x + 2}$.

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

9. $\frac{-x^2 - 4x - 1}{x - 1}$.

5. $\frac{-3x^3 + 2x^2 + 5}{x + 2}$.

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

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