

College Algebra with Review
Chapter 5 Test Review - Key

1. Combine: $-3x^3 + 12x^2 - 15x + 12$

2. Multiply: $x^2 - 5x - 24$

3. Multiply: $32x^2 + 20x - 3$

4. Multiply: $x^2 + 4x + 4$

5. Simplify: a) $\frac{x}{5y^5}$ b) $16a^7x^4$

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6. Simplify: a) $\frac{x^{10}}{4y^8}$ b) $8x^6y^{15}$

7. Divide using long division: $x + 7 + \frac{19}{x-3}$

8. Divide using long division: $x - 10 + \frac{17}{x+2}$

9. $f(-3) = 29$

10. $f \circ g = x^2 + x - 5$ and $g \circ f = x^2 + 5x - 1$