These questions are all taken from your *Algebra Review* text; the page and problem numbers given here are from the third edition.

(p. 63, Ex 2(a)) Evaluate $[(-2)^3]^2$.

(p. 77, #51) Give the degree of the polynomial $xy^2 - 1 + x$.

(p. 77, #63) Evaluate the polynomial $5y^3 - 3y^2 + 4$ for the value y = 2.

(p. 93) Perform the indicated operations. Express your answer as a polynomial. (#89) $(x - y)^2 - (x + y)^2$

$$(\#95) (x-y)(x^2+xy+y^2)$$

(p. 120) Completely factor each polynomial. $(\#17) 9x^2 - 16.$

 $(\#19) x^2 + 2x + 1.$

(p. 146, #27) Reduce to lowest terms: $\frac{y^2-25}{2y-10}$.

(p. 147, #53) Evaluate the expression $\frac{x^2-4x+4}{x^2-25}$ for the value x = -4.

(p. 147, #67) Determine which of the values must be excluded from the domain of the variable in the expression $\frac{x^2+5x-10}{x^3-x}$. (There may be more than one answer.)

(a)
$$x = 3$$
 (b) $x = 1$
(c) $x = 0$ (d) $x = -1$

(p. 153, #49) Simplify $\frac{\frac{8x}{x^2-1}}{\frac{10x}{x+1}}$.

(p. 187, #23) Simplify $\frac{2^3 \cdot 3^2}{2 \cdot 3^{-2}}$.

(p. 198, #65) Perform the indicated operations and simplify: $(\sqrt{3} - \sqrt{2})(\sqrt{3} + \sqrt{2})$.

- (p. 206, #27) Evaluate $\sqrt[3]{8(1+x)^3}$.
- (p. 206, #47) Simplify $\sqrt{\frac{4}{9x^2y^4}}$.