

1. A. $125x^3 + 300x^2 + 240x + 64$

2. C. $243x^5 + 810x^4 + 1,080x^3 + 720x^2 + 240x + 32$

3. A. $64x^6 - 96x^4 + 48x^2 - 8$

4. A. $a^6 - 6a^5b + 15a^4b^2 - 20a^3b^3 + 15a^2b^4 - 6ab^5 + b^6$

5. A. $x^5 - 5x^4\sqrt{2} + 20x^3 - 20x^2\sqrt{2} + 20x - 4\sqrt{2}$

6. D. $\frac{1}{x^3} - \frac{6}{x} + 12x - 8x^3$
