

Answers:

1. $-2 + 12x^2 - 30x^4$

2. $3x^2 + 12x + 12$

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

4. $\frac{1}{3x^{2/3}} - \frac{2}{3x^{5/3}}$

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