Indefinite Integrals I - Worksheet

Compute the following indefinite integrals.

1.
$$\int (5x+3)^7 \ln(2) dx$$

6.
$$\int \left(5x^3 + \frac{\sqrt{\pi}}{2\sqrt{x}} + 2^x - e^{-(\ln 2)^2/2}\right) dx$$

$$2. \int \frac{9x^2 + 7x + 1}{4x} dx$$

$$7. \int \frac{dx}{3x+5}$$

$$3. \int e^{5x+7} dx$$

$$8. \int \frac{x \sec^2 x + x^3}{x} dx$$

4.
$$\int \cos^2(4x)dx$$

$$9. \int 5xe^{x^2+7}dx$$

$$5. \int \frac{x + \sqrt{x}}{x^2} dx$$

10.
$$\int \sin(x)\cos(x)dx$$

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