

$$\boxed{1} \int_1^e \log(x^2) dx$$

$$\boxed{11} \int x \arctan x dx$$

$$\boxed{2} \int_{-9}^9 \sin(\sqrt[3]{x}) dx$$

$$\boxed{12} \int \frac{dx}{x^2 - 15x - 2014}$$

$$\boxed{3} \int_0^\infty \frac{d}{dx} [e^{1+x-x^2}] dx$$

$$\boxed{13} \int e^x [\log(1+x^2) - 2(1+x) \arctan x] dx$$

$$\boxed{4} \int_0^2 \sqrt{x + \sqrt{x + \sqrt{x + \cdots}}} dx$$

$$\boxed{14} \int (\arcsin x)^2 dx$$

$$\boxed{5} \int \sqrt{x} e^{\sqrt{x}} dx$$

$$\boxed{15} \int \frac{\sqrt{x^2 - 1}}{x} dx$$

$$\boxed{6} \int \sin(2x) \cos(3x) dx$$

$$\boxed{16} \int x \sec^2(4x) dx$$

$$\boxed{7} \int_0^{2\pi} |1 + 2 \sin x| dx$$

$$\boxed{17} \int \frac{2}{6 - 11x + 6x^2 - x^3} dx$$

$$\boxed{8} \int x(1-x)^{2014} dx$$

$$\boxed{18} \int_0^1 \frac{1}{[1 - \log_2(1-x)]} dx$$

$$\boxed{9} \int \operatorname{arcsinh}(x) dx$$

$$\boxed{19} \int_0^{1/\sqrt{3}} \sqrt{x + \sqrt{x^2 + 1}} dx$$

$$\boxed{10} \int_{-1}^0 \frac{x^2}{x-1} dx$$

$$\boxed{20} \int_0^{5\pi/2} \frac{dx}{2 + \cos x}$$