1 $\displaystyle \int_{-\pi}^{\pi} \sin^{2025}(x)\cos^{2026}(x)\,dx = \boxed{0}$

2 $\displaystyle \int e^{2026e^x + x}\,dx = \boxed{\dfrac{e^{2026e^x}}{2026}}$

3 $\displaystyle \int_{0}^{2026} \left\{\dfrac{\lfloor x \rfloor}{3}\right\}\,dx = \boxed{675}$

4 $\displaystyle \int_{-1}^{1} \underbrace{|x + |x + |\cdots + |x + |x||\cdots|||}_{2026\,x\text{'s}}\,dx = \boxed{1013}$

5 $\displaystyle \int \dfrac{dx}{\sqrt{x+1} - \sqrt{x-1}} = \boxed{\dfrac{1}{3}\left((x+1)^{3/2} + (x-1)^{3/2}\right)}$

6 $\displaystyle \int \sqrt{1 + \cosh(x)}\,dx = \boxed{2\sqrt{2}\sinh(x/2)}$

7 $\displaystyle \int \dfrac{2^{\log(x)}}{x^2}\,dx = \boxed{\dfrac{x^{\log(2)-1}}{\log(2)-1}}$

8 $\displaystyle \int_{0}^{1/2} \left(\sum_{n=2}^{\infty} x^n\right)\,dx = \boxed{\log(2) - \dfrac{5}{8}}$

9 $\displaystyle \int x^2 \sin(x)\,dx = \boxed{2x\sin(x) - (x^2 - 2)\cos(x)}$

10 $\displaystyle \int \dfrac{(x-1)^2}{2e^x + x^2 + 1}\,dx = \boxed{x - \log(2e^x + x^2 + 1)}$

11 $\displaystyle \int_{-1}^{1} \max\left(0, \sqrt{1-x^2} - \frac{1}{2}\right) dx = \boxed{\dfrac{\pi}{3} - \dfrac{\sqrt{3}}{4}}$

12 $\displaystyle \int_{0}^{1} \sqrt{x^2 + x + \sqrt{x^2 + x + \sqrt{\cdots}}}\, dx = \boxed{\dfrac{3}{2}}$

13 $\displaystyle \int \left(\cos^5(x) - 10\cos^3(x)\sin^2(x) + 5\cos(x)\sin^4(x)\right) dx = \boxed{\dfrac{1}{5}\sin(5x)}$

14 $\displaystyle \int \arctan(\sqrt{x})\, dx = \boxed{(x+1)\arctan(\sqrt{x}) - \sqrt{x}}$

15 $\displaystyle \int_{0}^{1000} \left(\lfloor \lceil x \rceil \rfloor + \lceil \lfloor x \rfloor \rceil + \lfloor \{x\} \rfloor + \{\lfloor x \rfloor\} + \lceil \{x\} \rceil + \{\lceil x \rceil\}\right) dx = \boxed{1001000}$

16 $\displaystyle \int \sqrt{\dfrac{\cos(x)\cot(x)\csc(x)}{\sin(x)\tan(x)\sec(x)}}\, dx = \boxed{-x - \cot(x)}$

17 $\displaystyle \int_{-\infty}^{\infty} \dfrac{e^{-x^2}}{1 + e^{2x}}\, dx = \boxed{\dfrac{\sqrt{\pi}}{2}}$

18 $\displaystyle \int \left(\dfrac{\sin^2(x)}{x^2} - \dfrac{\sin(2x)}{x}\right) dx = \boxed{-\dfrac{\sin^2(x)}{x}}$

19 $\displaystyle \int \dfrac{\log(\log(x))\log(\log(\log(x)))}{x\log(x)}\, dx = \boxed{\dfrac{1}{4}\log(\log(x))^2(2\log(\log(\log(x))) - 1)}$

20 $\displaystyle \int_{0}^{\pi/2} \cos^2\left(\dfrac{\pi}{2}\cos^2\left(\dfrac{\pi}{2}\cos^2(x)\right)\right) dx = \boxed{\dfrac{\pi}{4}}$