**1** $\displaystyle\int_0^{2\pi} \tan(\cos(x))\,dx = 0$

**2** $\displaystyle\int \frac{x+1}{x(x+\log x)}\,dx = \log(x + \log x)$

**3** $\displaystyle\int e^{x+e^x} + e^{x-e^x}\,dx = e^{e^x} - e^{-e^x}$

**4** $\displaystyle\int_{-1/2}^{1/2} \frac{dx}{1-x^2} = \log 3$

**5** $\displaystyle\int_0^2 2^{\log x}\,dx = \frac{2^{1+\log 2}}{1+\log 2}$

**6** $\displaystyle\int_{-2\pi}^{2\pi} (\cos 3x + \sin 2x)(-\sin 2019x + \cos 3x)\,dx = 2\pi$

**7** $\displaystyle\int \cos x \cdot \cos \sin x \cdot \cos \sin \sin x\,dx = \sin \sin \sin x$

**8** $\displaystyle\int_0^\infty \frac{e^{-\frac{2019}{4t^2}}}{t^2}\,dt = \sqrt{\frac{\pi}{2019}}$

**9** $\displaystyle\int \sin(\sqrt{x})dx = 2\sin(\sqrt{x}) - 2\sqrt{x}\cos(\sqrt{x})$

**10** $\displaystyle\int_0^1 \frac{\sqrt{x}}{1+x}dx = 2 - \frac{\pi}{2}$

**11** $\displaystyle\int_0^{2\pi} \cos(x)\cos(2x)\cos(3x)\,dx = \frac{\pi}{2}$

**12** $\displaystyle\lim_{n\to\infty} \int_{-\infty}^{\infty} e^{-x^{2n}}\,dx = 2$

**13** $\displaystyle\int_0^e x^{\frac{1}{\log x}}\,dx = e^2$

**14** $\displaystyle\int_0^{\pi/100} \frac{\sin(20x)+\sin(19x)}{\cos(20x)+\cos(19x)}\,dx = -\frac{2}{39}\log\cos\frac{39\pi}{200}$

**15** $\displaystyle\int \left(e^x\cos^2(x) + e^x\cos(x)\sin(x) - e^x\sin^2(x)\right)dx = e^x\cos(x)\sin(x)$

**16** $\displaystyle\int_0^{\pi/2} \frac{\sin x}{\sin(x+\pi/4)}\,dx = \frac{\pi}{2\sqrt{2}}$

**17** $\displaystyle\int \frac{dx}{x+\sqrt[3]{x}} = \frac{3}{2}\log(1+x^{2/3})$

**18** $\displaystyle\int_0^2 x^{x^2+1}(2\log(x)+1)dx = 15$

**19** $\displaystyle\int \frac{2x^3-1}{x(x^3+1)}\,dx = \log(x^3+1) - \log x$

**20** $\displaystyle\int \cos(\arctan(x))\,dx = \sinh^{-1} x = \log\left(\sqrt{x^2+1}+x\right)$