1 $\displaystyle \int \frac{x^2}{\sqrt{x^3+2}}\,dx = \frac{2\sqrt{x^3+2}}{3}$

2 $\displaystyle \int_1^\infty \frac{\log x}{x^2}\,dx = 1$

3 $\displaystyle \int \operatorname{sech}(x)\,dx = 2\arctan(e^x)$

4 $\displaystyle \int x^3 e^{x^2}\,dx = \frac{1}{2}(x^2-1)e^{x^2}$

5 $\displaystyle \int_1^2 \frac{1}{x\sqrt{x^2-1}}\,dx = \pi/3$

6 $\displaystyle \int_1^\infty \frac{dx}{x(x^2+1)} = \frac{\log 2}{2}$

7 $\displaystyle \int \cosh^{-1} x\,dx = x\cosh^{-1} x - \sqrt{x^2-1}$

8 $\displaystyle \int_{-\infty}^\infty e^{-2x^2-5x-3}\,dx = e^{1/8}\sqrt{\pi/2}$

9 $\displaystyle \int \sin\sqrt{x}\,dx = 2\sin\sqrt{x} - 2\sqrt{x}\cos\sqrt{x}$

10 $\displaystyle \int_0^\infty \frac{dx}{(x+1/x)^2} = \frac{\pi}{4}$

11 $\displaystyle\int \frac{(2+x)e^{-x}}{x^3}\,dx = -\frac{e^{-x}}{x^2}$

12 $\displaystyle\int_0^1 \frac{dx}{\sqrt{x(1-x)}} = \pi$

13 $\displaystyle\int_0^\infty \frac{\tanh(x)}{\exp(x)}\,dx = \frac{\pi}{2} - 1$

14 $\displaystyle\int_0^{\frac{\pi}{2}} \sqrt{\sin(x)+1}\,dx = 2$

15 $\displaystyle\lim_{n\to\infty} I_n,$ where $I_1 = \displaystyle\int_0^1 \frac{dx}{1+\sqrt{x}},\quad I_2 = \int_0^1 \frac{dx}{1+\frac{1}{1+\sqrt{x}}},\quad \ldots = \frac{\sqrt{5}-1}{2}$

16 $\displaystyle\int_{-\infty}^\infty \frac{\sin^2(x+\pi/4)}{e^{x^2}}\,dx = \frac{\sqrt{\pi}}{2}$

17 $\displaystyle\int_{-\infty}^\infty 3x^2(x^3+1)^2 e^{-x^6-2x^3}\,dx = \frac{e\sqrt{\pi}}{2}$

18 $\displaystyle\int_0^{\pi/2} \frac{dx}{1+\tan^{2017} x} = \pi/4$

19 $\displaystyle\int e^{2x}\cos(3x)\,dx = \frac{1}{13}e^{2x}(3\sin(3x)+2\cos(3x))$

20 $\displaystyle\int (\cos(x))^{\cos(x)+1}\tan(x)(1+\log(\cos(x)))\,dx = -\cos(x)^{\cos(x)}$