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

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

3 $\displaystyle \int \operatorname{sech}(x)\,dx$

4 $\displaystyle \int x^3 e^{x^2}\,dx$

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

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

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

8 $\displaystyle \int_{-\infty}^\infty e^{-2x^2-5x-3}\,dx$

9 $\displaystyle \int \sin\sqrt{x}\,dx$

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

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

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

13 $\displaystyle\int_0^\infty \frac{\tanh(x)}{\exp(x)}\,dx$

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

15 $\displaystyle\lim_{n\to\infty} I_n$, where $I_1 = \int_0^1 \frac{dx}{1+\sqrt{x}}$, $\quad I_2 = \int_0^1 \frac{dx}{1+\frac{1}{1+\sqrt{x}}}$, $\quad I_3 = \int_0^1 \frac{dx}{1+\frac{1}{1+\frac{1}{1+\sqrt{x}}}}$, $\quad \cdots$

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

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

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

19 $\displaystyle\int e^{2x}\cos(3x)\,dx$

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