MATH 141, Mixed integral practice.

$$\int x e^{\frac{x}{2}}\,\mathrm{d}x \qquad \int x e^{1-x^2}\,\mathrm{d}x \qquad \int \frac{x}{(1+x)^2}\,\mathrm{d}x$$

$$\int \frac{x}{\sqrt{1-x^2}}\,\mathrm{d}x \qquad \int x\sin(x^2)\,\mathrm{d}x \qquad \int \frac{1}{\sqrt{1-x^2}}\,\mathrm{d}x$$

$$\int x^2\sin x\,\mathrm{d}x \qquad \int (\cos 3x - \sin x)\,\mathrm{d}x \qquad \int \frac{\ln x}{x^2}\,\mathrm{d}x$$

$$\int \cos^5 x\sin x\,\mathrm{d}x \qquad \int (3x - \ln x + e^{4x})\,\mathrm{d}x \qquad \int \arcsin x\,\mathrm{d}x$$