$$\frac{2}{3}\int (x+7)dx = \frac{1}{2}x^2 + 7x + 0$$

$$3/\int (13-x)dx = 13x - \frac{1}{2}x^2 + C$$

$$4/(3x-3x^2)dx = x^2-x^3+C$$

$$5/(8x^{3}-9x^{2}+4)dx=2x^{4}-3x^{3}+4x+0$$

6/
$$\int (x^5-4) dx = \frac{1}{6}x^6-4x+C$$

$$\mathcal{H}\left((6x^{3/2}-7x+2)dx=\frac{12}{5}x^{5/2}-\frac{7}{5}x^2+2x+C\right)$$

$$\begin{cases}
\sqrt{x'} + \frac{1}{2\sqrt{x'}} \right) dx = \int (x'^2 + \frac{1}{2}x'^2) dx \\
= \frac{3}{2}x' + x'^2 + C \\
= \frac{2}{3}x\sqrt{x'} + \sqrt{x'} + C
\end{cases}$$

$$9/3/x^{2}dx = \int x^{2/3}dx$$

= $\frac{3}{5}x^{5/3} + C$

$$|0| \int (44\sqrt{x^{2}} - 9x^{3}) dx = \int (4x^{3/4} - 9x^{3}) dx$$

$$= \frac{16}{7}x^{4} - \frac{9}{4}x^{4} + C$$

$$\frac{1}{\sqrt{x}} \int \frac{x+6}{\sqrt{x}} dx = \int \left(\frac{x}{\sqrt{x}} + \frac{6}{\sqrt{x}}\right) dx \\
= \int \left(x^{-1/2} + 6x^{-1/2}\right) dx \\
= 2\sqrt{x^{2}} + 4x^{-1/2} + C$$

$$\frac{12}{x^3} \int \frac{x^2 + 2x - 3}{x^3} dx = \int \left(\frac{1}{x} + \frac{2}{x^2} - 3x^{-3}\right) dx$$

$$= \ln|x| - \frac{2}{x} + \frac{3}{2x^2} + C$$

$$|y| \int (2x^2 - 1)^2 dx = \int (4x^4 - 4x^2 + 1) dx$$

$$= \frac{4}{5}x^5 - \frac{4}{5}x^3 + x + C$$

$$15 \int (1+3t)t^2 dt = \int (t^2+3t^3) dt$$

$$= \frac{1}{3}t^3 + \frac{2}{3}t^4 + C$$

18
$$\int (x^2 - \cos x) dx = \frac{1}{3}x^2 - \sin x + C$$

19
$$\int (1-\csc x \cot x) dx = x + \csc x + C$$

$$\frac{23}{1-\cos^2 x} dx = \int \frac{\cos x}{\sin^2 x} dx$$

$$= \int \frac{\cos x}{\sin x} \int \frac{dx}{\sin x}$$

$$= \int \cot x \cos x dx$$

$$= \int \cot x \csc x dx$$

$$= -\cos x + C \int \cot x \cos x dx$$

$$25/\int e^{-2x} dx = -\frac{1}{2} e^{-2x} + C$$