a) $\int (x^4 - x^3 + 2x^2 + 4x - 3)\,dx$

$\frac{x^{4+1}}{4+1} - \frac{x^{3+1}}{3+1} + \frac{2x^{2+1}}{2+1} + \frac{4x^{1+1}}{1+1} - \frac{3x^{0+1}}{0+1}$

$\frac{x^5}{5} - \frac{x^4}{4} + \frac{2x^3}{3} + \frac{4x^2}{2} - 3x + C$

b) $\int \left(\frac{2}{x^2} + \frac{3}{x^3}\right) dx$

$\int \frac{2}{x^2} dx + \int \frac{3}{x^3} dx$

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

c) $\int \left(\sqrt{x} + \frac{1}{\sqrt{x}}\right) dx$

$\int \left(x^{1/2} + \frac{1}{x^{1/2}}\right) dx$

$\frac{x^{1/2+1}}{\frac{1}{2}+1} + \frac{1}{\frac{x^{1/2+1}}{\frac{1}{2}-1 \cdot x^{1/2-1}}}$

$\frac{2 \cdot x\sqrt{x}}{3} + 2\sqrt{x} + C$

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

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

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

$\int 1\,dx + \int \frac{1}{x} dx - \int \frac{1}{x^2} dx$

$x + \ln x + 1/x + C$

e) $\int 2 \sec x \cdot \operatorname{tg} x\,dx$

$2 \sec x + C$

f) $\int (2e^x + 3.4^x)\,dx$

$2e^x + \frac{3 \cdot 2^{2x-1}}{\ln 2}\,dx$

$2e^x + \frac{3 \cdot 2^{x-1}}{\ln 2} + C$

g) $\int \left(\frac{1}{x} + \frac{1}{x^2}\right) dx$

$\int \frac{1}{x} dx + \int \frac{1}{x^2} dx$

$\ln x - 1/x + C$

h) $\int 3^x \cdot 2^x\,dx$

$\int (3.2)^x\,dx$

$\int 6^x\,dx$

$\frac{6^x}{\ln 6} + C$