1. Primitive as seguintes funções:

a)
$$\frac{x^2+x-1}{(x-1)(x+1)(x-2)}$$

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$$\frac{x^2 + x - 1}{(x - 1)(x + 1)(x - 2)}$$
 b) $\frac{x^4 - x^3 - 3x^2 - 2x + 2}{x^3 + x^2 - 2x}$

c)
$$\frac{x^2+1}{x^4-x^3-3x^2+x+2}$$
 d) $\frac{x+2}{(x+1)(x^2+3)}$

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$$e) \quad \frac{1}{e^x - 1}$$

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 f) $\frac{e^{3x} + e^{\frac{x}{2}}}{e^x - 1}$

$$g) \quad \frac{1}{6} \cdot \frac{\sqrt{x} - 1}{\sqrt[3]{x} + 1}$$

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$$\frac{1}{6} \cdot \frac{\sqrt{x} - 1}{\sqrt[3]{x} + 1}$$
 h) $\frac{1}{\sqrt[3]{1 + x} + \sqrt{1 + x}}$

$$i) \quad \frac{1}{1 + \sin(x)}$$

$$i) \quad \frac{1}{1 + \sin(x)} \qquad \qquad j) \frac{\sin(x)}{\sin(x) + \cos(x)}$$

$$k) \quad \frac{x}{\sqrt{x^2 + x + 1}} \qquad l) \quad \frac{1}{\sqrt{1 + e^x}}$$

$$l) \frac{1}{\sqrt{1+e^a}}$$