

1. Primitive as seguintes funções:

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

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

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

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

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

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

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

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

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

$$j) \frac{\sin(x)}{\sin(x) + \cos(x)}$$

$$k) \frac{x}{\sqrt{x^2 + x + 1}}$$

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