

DATA

$$y = \frac{1}{2} \cdot \left(-\frac{1}{2}\right) \cdot \left(-\frac{3}{2}\right) \Rightarrow \frac{3}{8}$$

$$\begin{array}{r} 30 \mid 8 \\ 24 \quad 0,37 \\ \hline 60 \end{array} \quad y > 0$$

Alternativa (E)

101. Resolução: ☒

$$\begin{array}{l} f(x) \\ x-3 \geq 0 \\ 5+x \\ g(x) \end{array}$$

$$\begin{array}{l} f(x) = x-3 \rightarrow x=3 \text{ RAIZ } \oplus \\ g(x) = 5+x \rightarrow x=-5 \text{ RAIZ } \oplus \end{array}$$

$$\begin{array}{l} f(x) \quad - \quad - \quad 0^3 + \\ g(x) \quad - \quad 0^{-5} + \quad 1 + \\ f(x) \quad + \quad 0 \quad - \quad 0^+ \\ g(x) \quad -5 \quad -3 \end{array}$$

$$S = \{x \in \mathbb{R} / x < -5 \text{ ou } x \geq 3\}$$

Alternativa (C)

102. Resolução: ☒

$$\sqrt{\frac{x+1}{x-2}} \quad \begin{array}{l} 1^o \rightarrow x-2 \neq 0 \\ x \neq 2 \end{array}$$

$$\frac{x+1}{x-2} \geq 0 \quad f(x)$$

$$\begin{array}{l} g(x) \\ f(x) = x+1 \rightarrow x=-1 \\ g(x) = x-2 \rightarrow x=2 \end{array}$$

$$\begin{array}{l} 2 \\ \oplus \end{array}$$

$$\begin{array}{l} f(x) \quad - \quad 0^{-1} + \quad 1 + \\ g(x) \quad - \quad 1 \quad - \quad 0^2 + \\ f(x) \quad + \quad 1 \quad - \quad 1^+ \\ g(x) \quad -1 \quad 2 \end{array}$$

$$S = \{x \in \mathbb{R} / x \leq -1 \text{ ou } x \geq 2\}$$

Alternativa (D)

103. Resolução: ☒

$$y = \sqrt{\frac{1-x}{1+x}}$$

$$\begin{array}{l} f(x) = 1-x \rightarrow -x+1=0 \\ 1-x \geq 0 \quad -x=-1 \\ 1+x \quad x=1 \\ g(x) = x+1 \rightarrow x=-1 \end{array}$$

$$\begin{array}{l} \oplus \\ -1 \end{array}$$

$$\begin{array}{l} f(x) \quad + \quad 1 \quad + \quad 0^1 - \\ g(x) \quad - \quad 0 \quad + \quad 1 + \\ f(x) \quad - \quad 1 \quad + \quad 1 - \\ g(x) \quad -1 \quad 1 \end{array}$$

$$S = \{x \in \mathbb{R} / -1 < x \leq 1\}$$

Alternativa (B)