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\documentclass[portuguese,12pt,a4paper]{article}
\usepackage{amsmath,amstext,amssymb}
\begin{document}
\begin{enumerate}
\item  $X = \left( \begin{array}{cc} a_1 & a_2 \\ a_3 & a_4 \end{array} \right)$ 
\item  $f(x) = \begin{cases} \frac{2y^3}{3}, & \text{se } y < 0 \\ 0, & \text{caso contrário} \end{cases}$ 
\item  $A = \left( \begin{array}{cc} \frac{1}{3} & \sqrt{2} \\ 2\pi & x^{-2} \end{array} \right)$ 
\item  $f(x) = \begin{cases} -x^2, & \text{se } x < 0 \\ x^2, & \text{se } x \geq 0 \end{cases}$ 
\item  $f(x) = \begin{cases} x^2+6x+5, & \text{se } x \leq -2 \\ \frac{x^4}{4} - \frac{5}{2}, & \text{se } -2 < x < 2 \\ -x^2+8x-14, & \text{se } x \geq 2 \end{cases}$ 
\item  $f(x) = \begin{cases} \frac{x^2-1}{x-1}, & \text{se } x \neq 1 \\ 1, & \text{se } x=1 \end{cases}$ 
\end{enumerate}
\end{document}

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