

Solve

$$x^3 - x^2 \leq 0$$

$$x^2(x-1) \leq 0$$

$$x^2 \quad \begin{array}{c} ++ \\ \hline 0 \\ \hline ++ \end{array}$$

$$x-1 \quad \begin{array}{c} - - - - \\ \hline 1 \\ \hline ++ \end{array}$$

$$x^2(x-1) \quad \begin{array}{c} - \quad - \quad + \\ \hline 0 \quad 1 \\ \hline \end{array}$$

ans $x \leq 1, x \in (-\infty, 1]$

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1.)

A function f consists of a domain (a set A , which for us will be a subset of the real numbers) and a rule that assigns each element x of A to exactly one element, called $f(x)$, of a set B (again, for us a subset of the reals).

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