

Answer on Question #78865 – Math – Calculus

Question

Find the domain of the function f , defined by $f(x)=\sqrt{x^3(9-x)}$

Solution

$$f(x) = \sqrt{x^3(9-x)}$$

$$\text{Domain: } x^3(9-x) \geq 0 \rightarrow 0 \leq x \leq 9.$$

Answer: $0 \leq x \leq 9.$