

# Domain of a Function

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1. Find the domain of  $x^5 - 3x^2 + 1$

2. Find the domain of  $\frac{x-1}{x^2+x-12}$

3. Find the domain of  $\sqrt{x^2+2x-35}$

4. Find the domain of  $\log(x + 7)$

5. Find the domain of  $\log\left(\frac{x - 4}{(x + 2)(x - 1)}\right)$

6. Find the domain of  $\sqrt{\frac{1 - |x|}{2 - |x|}}$