

Math 115
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Sign Diagrams

Use a sign diagram to find the domain of a function.

Find the domain of the function $f(x) = \sqrt{\frac{x^2 - 8x + 16}{1 - x}}$. Do this using the following steps.

a.) Construct a sign diagram (or sign chart) of $\frac{x^2 - 8x + 16}{1 - x}$.



b.) Use part (a.) to construct a sign diagram of $f(x) = \sqrt{\frac{x^2 - 8x + 16}{1 - x}}$.



c.) Use the sign diagram to find the domain of $f(x)$. Express your answer in set-notation.

{ x | _____ }