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Express $y$ as a function of $x$ in $x^{2}+y^{5}=10$

1) Move $x^{2}$ to the right side with subtraction.

$$
y^{5}=10-x^{2}
$$

2) Now take the 5 th root of both sides.

$$
y=\sqrt[5]{10-x^{2}}
$$

3) When you plot this, you get the curve below. It pasess the vertical line test for functions.

