Answer on Question #70050 – Math – Calculus

Question

Find the area bounded by $a^2 x^2 = a^2 x^2 - x^4$.

Solution

$$a^2 x^2 = a^2 x^2 - x^4$$
$$a^2 x^2 - a^2 x^2 = -x^4$$
$$0 = -x^4$$
$$x = 0$$

The locus defined by this equation is a *single line $x = 0$*. This line doesn't bind any area.

Answer: 0.