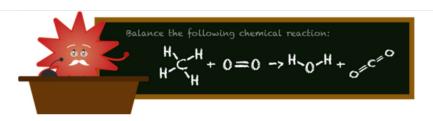
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 $x^2+y^2>sqrt((0.996x+0.089)^2+0.992016y^2)*sqrt(x^2+y^2)$





Σ Extended Keyboard

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Examples

Random

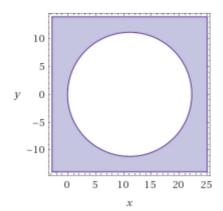
Input interpretation:

$$x^2 + y^2 > \sqrt{(0.996 x + 0.089)^2 + 0.992016 y^2} \sqrt{x^2 + y^2}$$

Result:

$$x^2 + y^2 > \sqrt{(0.996 x + 0.089)^2 + 0.992016 y^2} \sqrt{x^2 + y^2}$$

Inequality plot:



Alternate form:

$$\sqrt{x^2 + y^2} \left(\sqrt{x^2 + \frac{89 \, x}{498} + y^2 + \frac{7921}{992016}} - \frac{250}{249} \sqrt{x^2 + y^2} \right) < 0$$

Solutions:

$$x > \frac{89}{4}$$

$$x < -\frac{89}{1996}$$

$$-\frac{89}{1006} \le x \le \frac{89}{4}$$
, $y > \frac{\sqrt{-7984 \, x^2 + 177288 \, x + 7921}}{\sqrt{-7984 \, x^2 + 177288 \, x + 7921}}$

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Approximate forms

$$-\frac{89}{1996} \le x \le \frac{89}{4} \; , \quad y < -\frac{\sqrt{-7984\,x^2 + 177\,288\,x + 7921}}{4\,\sqrt{499}}$$

Interval notation:

$$\left(\frac{89}{4}, \infty\right)$$

$$\left(-\infty, -\frac{89}{1996}\right)$$

$$\left[-\frac{89}{1996}, \frac{89}{4}\right]$$

$$\left(\frac{\sqrt{-7984 \, x^2 + 177288 \, x + 7921}}{4 \, \sqrt{499}}, \, \infty\right)$$

$$\left[-\frac{89}{1996}, \frac{89}{4}\right]$$

$$\left(-\infty, -\frac{\sqrt{-7984 \, x^2 + 177288 \, x + 7921}}{4 \, \sqrt{499}}\right)$$



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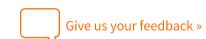
Related Queries:

- = $d/dx ((x^2 + y(x)^2) sqrt((0.996 x + 0.089)^...$ = $d/dy ((x(y)^2 + y^2) sqrt((0.996 x(y) + 0.089)...$
- = solve $(x^2 + y^2)$ sqrt $((0.996 x + 0.089)^2 + ...$ = maximize $(x^2 + y^2)$ sqrt((0.996 x + 0.089)...
- = w = z^2 vs w = z^(1/2)



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