
Chapter 9

Parametric Equations and Polar Functions

9.1 Parametric Equations

Thinking Back

Eliminating a variable

- ▷ Since $x = t^2$, we get $y = t^6 = (t^2)^3 = x^3$.
- ▷ $x = \sin t = y$, so the curve is $x = y$.
- ▷ Since $\sin^2 t + \cos^2 t = 1$, the relationship between x and y is $x^2 + y^2 = 1$.
- ▷ Since $\cosh^2 t - \sinh^2 t = 1$, the relationship between x and y is $y^2 - x^2 = 1$.

Arc length

Using the arc length formula from Theorem 6.7, we have

- ▷ The arc length is $\int_0^5 \sqrt{1^2 + ((3x-4)^2)} dx = \int_0^5 \sqrt{1^2 + 3^2} dx = 5\sqrt{10}$.
- ▷ With $f(x) = \sqrt{4-x^2}$, we get $f'(x) = \frac{1}{2}(4-x^2)^{-1/2} \cdot (-2x) = -x(4-x^2)^{-1/2}$. Then the arc length is

$$\begin{aligned} \int_0^2 \sqrt{1 + (f'(x))^2} dx &= \int_0^2 \sqrt{1 + (-x(4-x^2)^{-1/2})^2} dx \\ &= \int_0^2 \sqrt{1 + \frac{x^2}{4-x^2}} dx \\ &= \int_0^2 \sqrt{\frac{4}{4-x^2}} dx \\ &= \int_0^2 \frac{2}{\sqrt{4-x^2}} dx \\ &= \left[2 \sin^{-1} \frac{x}{2} \right]_0^2 \\ &= 2 \sin^{-1} 1 - 2 \sin^{-1} 0 = \pi. \end{aligned}$$

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JL Elias



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