

7.244.3 (4)  $z = \frac{x^2}{a^2} - \frac{y^2}{b^2}$

$2010/12 - 4$

$2011/12 - 128$

$\begin{cases} x = a(u+v) \\ y = b(u-v) \end{cases}$

参数方程

$\begin{cases} x = a(u+v) \\ y = b(u-v) \end{cases}$

$y = b(u-v)$

$z = 4a^2$

$u, v \in (-\infty, +\infty)$

5.  $z = \frac{x^2}{a^2} + \frac{y^2}{b^2}$

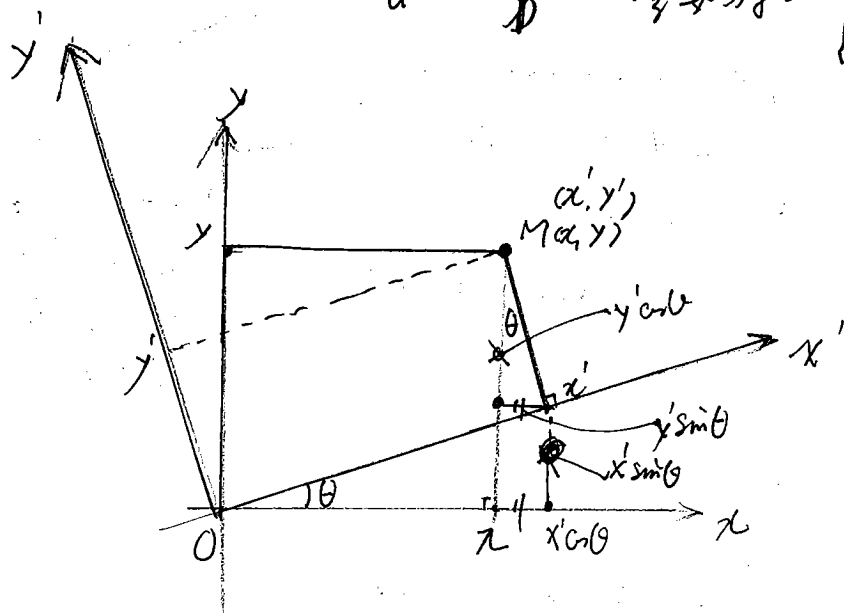
参数方程

$\begin{cases} x = a\sqrt{z} \cdot \cos\theta \\ y = b\sqrt{z} \cdot \sin\theta \end{cases}$

$z = z$

$0 \leq \theta \leq 2\pi$

$0 \leq z < +\infty$



$\begin{cases} x = x' \cos\theta - y' \sin\theta \\ y = x' \sin\theta + y' \cos\theta \end{cases}$