

$$\sqrt{x^2+y^2} \tag{1}$$

$$\frac{1}{1+\frac{1}{x}} \tag{2}$$

$$\sqrt{x^2+y^2}$$

$$\frac{1}{1+\frac{1}{x}}$$

$$3^2+4^2=5^2$$

$$\frac{1}{1+\frac{1}{x}}$$

$$\sqrt{x^2+y^2} \tag{3}$$

$$3^2+4^2=5^2 \tag{4}$$

$$a=\sqrt{\frac{x}{x^2+x+1}} \tag{5}$$

$$3^2+4^2=5^2$$

$$a=\sqrt{\frac{x}{x^2+x+1}}$$

$$\begin{aligned}\cos 2x &= \cos^2 x - \sin^2 x \\ &= 2 \cos^2 x - 1\end{aligned} \tag{6}$$

$$D(x)=\begin{cases}1, & \text{如果} x\in\mathbb{Q};\\0, & \text{如果} x\in\mathbb{R}\setminus\mathbb{Q}.\end{cases} \tag{7}$$