Найдем производную функции:

$$\frac{\cos\left(x^{(\sin x)^x}\right) \cdot \cos x}{x} \tag{1}$$

$$\frac{\partial}{\partial y} \left(\frac{\cos\left(x^{(\sin x)^x}\right) \cdot \cos x}{x} \right) \tag{2}$$

$$\frac{\frac{\partial}{\partial y}(\cos(x^{(\sin x)^x})\cdot\cos x)\cdot x - \cos(x^{(\sin x)^x})\cdot\cos x \cdot \frac{\partial}{\partial y}(x)}{x^2}$$
(3)

$$\frac{\partial}{\partial y}(\cos\left(x^{(\sin x)^x}\right)\cdot\cos x)\tag{4}$$

$$\frac{\partial}{\partial y}(\cos(x^{(\sin x)^x})) \cdot \cos x + \cos(x^{(\sin x)^x}) \cdot \frac{\partial}{\partial y}(\cos x)$$
 (5)

$$\frac{\partial}{\partial y}(\cos\left(x^{(\sin x)^x}\right))\tag{6}$$

$$(-1) \cdot \sin\left(x^{(\sin x)^x}\right) \cdot \frac{\partial}{\partial u} \left(x^{(\sin x)^x}\right) \tag{7}$$

$$\frac{\partial}{\partial y} (x^{(\sin x)^x}) \tag{8}$$

$$x^{(\sin x)^x} \cdot \left(\frac{\partial}{\partial y}((\sin x)^x) \cdot \ln x + \frac{(\sin x)^x \cdot \frac{\partial}{\partial y}(x)}{x}\right) \tag{9}$$

$$\frac{\partial}{\partial y}((\sin x)^x)\tag{10}$$

$$(\sin x)^{x} \cdot \left(\frac{\partial}{\partial y}(x) \cdot \ln(\sin x) + \frac{x \cdot \frac{\partial}{\partial y}(\sin x)}{\sin x}\right) \tag{11}$$

$$\frac{\partial}{\partial y}(x) \tag{12}$$

$$0 (13)$$

$$\frac{\partial}{\partial y}(\sin x)\tag{14}$$

$$\cos x \cdot \frac{\partial}{\partial y}(x) \tag{15}$$

$$\frac{\partial}{\partial y}(x) \tag{16}$$

$$0 (17)$$

$$\frac{\partial}{\partial y}(x) \tag{18}$$

$$0 (19)$$

$$\frac{\partial}{\partial y}(\cos x)\tag{20}$$

$$(-1) \cdot \sin x \cdot \frac{\partial}{\partial y}(x) \tag{21}$$

$$\frac{\partial}{\partial y}(x) \tag{22}$$

$$0 (23)$$

$$\frac{\partial}{\partial y}(x) \tag{24}$$

$$0$$
 (25)

$$\frac{\left((-1)\cdot\sin\left(x^{(\sin x)^x}\right)\cdot x^{(\sin x)^x}\cdot\left((\sin x)^x\cdot\left(0\cdot\ln\left(\sin x\right)+\frac{x\cdot\cos x\cdot0}{\sin x}\right)\cdot\ln x+\frac{(\sin x)^x\cdot0}{x}\right)\cdot\cos x+\cos\left(x^{(\sin x)^x}\right)\cdot\left(-1\right)}{x^2}$$

$$\frac{\left((-1)\cdot\sin\left(x^{(\sin x)^x}\right)\cdot x^{(\sin x)^x}\cdot\left((\sin x)^x\cdot\left(0\cdot\ln\left(\sin x\right)+\frac{x\cdot\cos x\cdot0}{\sin x}\right)\cdot\ln x+\frac{(\sin x)^x\cdot0}{x^2}\right)\cdot\cos x+\cos\left(x^{(\sin x)^x}\right)\cdot\left(-1\right)}{x^2}$$

После элементарных преобразований получаем:

$$-0 (28)$$