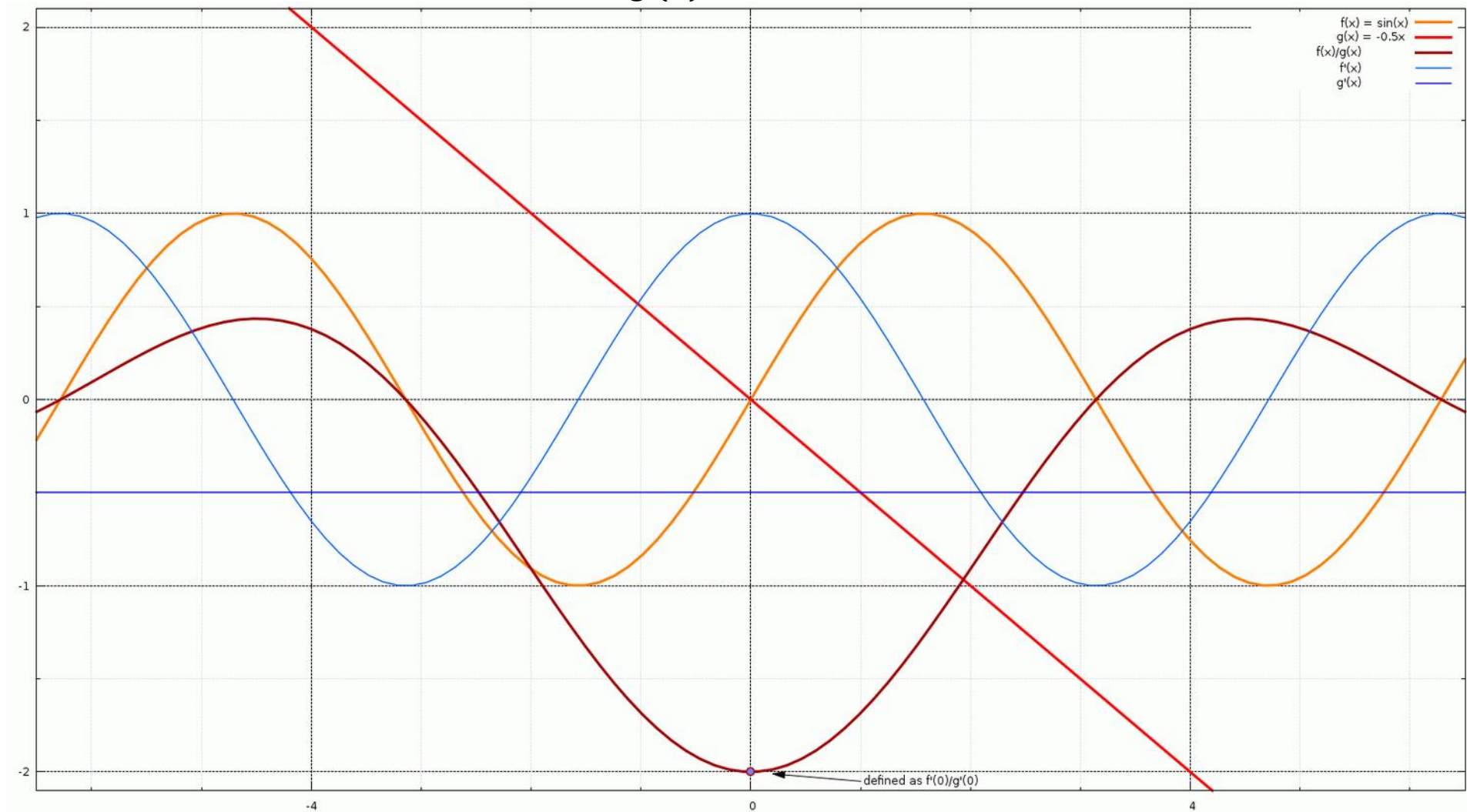


$$\frac{f(x)}{g(x)} = \frac{\sin(x)}{-0,5x}$$



Continuous completion of an example function quotient

$$\frac{f(x)}{g(x)}$$

by l'Hôpital's rule.

At $x=0$ the quotient is undefined since $f(0)=0$ and $g(0)=0$.

Using the Rule of l'Hospital

$$\frac{f'(x)}{g'(x)} = \frac{\cos(x)}{-0,5} \text{ then the limit}$$

$$\lim_{x \rightarrow 0} \frac{\cos(x)}{-0,5} = -2$$