## 1.

Ifthe tangent lineto $y=f(x)$ at $(5,2)$ passes through ( 1,1 ), find $f(5)$ and $f^{\prime}(5)$. 3.

Find the $2^{\text {nd }}$ derivative of the function.
$y^{2}+2 y=2 x+1$
4.

Find the derivative of the function.
$f(x)=4 t^{3}-5 e^{t}$
5.


## Findf'

$f(\theta)=1 / 2 e^{\sin (2 \theta)}$
7. The graph of the equation $y^{2}=5 x^{4}-x^{2}$ is called a Kampyle of Eudoxus. (Such curves were first studied by the Greek
 second derivatives of the function.
$g(s)=s^{2} \cos s$


