DATE:

## Maclaurin Series

Common Maclaurin Series (that you must memorize)
$\square$
$\sin x=$
$\cos x=$
$\frac{1}{1-x}=$
$\frac{1}{1+x}=$
$\ln (1+x)=$
$\tan ^{-1} x=$

Write the first three non-zero terms and the general term of the Maclaurin series generated by the function.
. 1) $f(x)=\cos x^{2}$

$$
\text { (2) } g(x)=x^{2} e^{x}
$$

3) $h(x)=\ln (1+3 x)$
4) $w(x)=\frac{x}{1-2 x}$
$\cdot \longleftarrow \cdot \longleftarrow \cdot \longleftarrow$
5) $m(x)=x \sin x$
