## WolframAlpha:

```
y= x3}+3\mp@subsup{x}{}{2
```

Input:

$$
y=x^{3}+3 x^{2}
$$



Alternate form:

$$
y=x^{2}(x+3)
$$

$$
\begin{aligned}
& \text { Implicit derivatives: } \\
& \qquad \frac{\partial x(y)}{\partial y}=\frac{1}{6 x+3 x^{2}}
\end{aligned}
$$

[^0][^1]
[^0]:    Local maximum:
    $\max \left\{y=x^{3}+3 x^{2}\right\}=4$ at $x=-2$

[^1]:    Local minimum:
    $\min \left\{y=x^{3}+3 x^{2}\right\}=0$ at $x=0$

