Input

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Hint: The second derivative of f(x)is the derivative of f'(x). The second derivative is written f"(x).

Output The given polynomial is

Output The second derivative of a polynomial $f(x) = -9x^2$ can be

found using the power rule of differentiation, which states that:

 $f(x^2)(x^n) = n(n-$ 1)x^{n-2}\$\$

In this case, we have n = 2, so: $\$ \frac{d^2}{dx^2}(-9x^2) = 2(2-

 $1)(-9x^2) = 18x^2$

\$18x^2\$.

So, the second derivative of f(x)is $f''(x) = 18x^2$. Therefore, the value of f''(x) is

fx) = $9x^2$. To find the second

derivative, we can use the definition of a derivative as a limit: $f'(x) = d/dx (-9x^2) = -18x$

Now, to find the second derivative.

f''(x) = d/dx (-18x) = -18So, the value of f''(x) is -18.

we can use the chain rule:

(b) With Hint (CoT +Hint)

(a) Without Hint (CoT)