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MATH 2301 GW11 Part I: Rewriting Functions in Different Forms

|  | $5 x^{-2}+9 x^{-1}$ <br> II | $1.2 x^{-1 / 2}-0.6 x^{-2 / 3}$ <br> II | 11 |  | 11 | $=\left(\frac{7}{15}\right) x^{-2 / 3}-\left(\frac{6}{55}\right) x^{-7 / 5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
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|  |  |  |  | II |  | II |

## GW 11 Part II: Rewrite Function, then Find Derivative Using Derivative Rules

$$
f(x)=\frac{7 \sqrt[3]{x}}{5}+\frac{3}{11 x^{2 / 5}}
$$

(A) Rewrite $f(x)$ in power function form.

That is, rewrite it as a sum of terms of the form constant $\times$ power function. That is, rewrite it in the form $f(x)=a x^{p}+b x^{q}$.
Hint: Do this in two steps, as was done in Part I
(B) Find $f^{\prime}(x)$.

- Use the Derivative Rules. (That is, DO NOT use the Definition of the Derivative.)
- Show all details clearly and use correct notation.
- Simplify your final answer and rewrite it in positive exponent form. That is, rewrite it so that it is simplified and does not have any negative exponents.

