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[MTH102] If $\{X\}$ and $\{Y\}$ are non-empty sets in the function $\{f : X \rightarrow Y\}$, the set $\{X\}$ is called
Domain of the function

[MTH102] Obtain the derivative of $\{bx^n\}$, where $\{b\}$ is a constant and $\{n\}$ is a positive integer
 $\{bnx^{n-1}\}$

[MTH102] Each value taken on by the dependent variable of a function is called ?
Image

[MTH102] If $\{y=x^5e^x\}$, find $\{\frac{dy}{dx}\}$
 $\{\frac{dy}{dx}=x^4e^x(x+5)\}$

[MTH102] For what value of $\{x\}$ is the function $\{\frac{1}{x-2}\}$ not defined?
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[MTH102] If $\{f(x)=x^2-3x\}$, evaluate $\{f(-5)\}$
40

[MTH102] Determine the $\{\lim_{x \rightarrow p} \frac{x^3-p^3}{x-p}\}$
 $\{3p^2\}$

[MTH102] Let $\{f(x)=x^2+2\}$ and $\{g(x)=2x+1\}$, find $\{f(g(x))\}$
 $\{4x^2-16x+16\}$

[MTH102] If $\{y=\sec^2 x\}$, find $\{\frac{dy}{dx}\}$
 $\{14x \tan x \sec^2 x\}$

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