

the followings:

$$\sqrt{6x^2} \text{ and } \frac{3}{2\sqrt{y}}$$

[MTH311] If $f(x) = x^2 - 3x + 5$ then $f(t-2)$ is $t^2 - 7t + 15$

[MTH311] Find $(g \cdot f)$ if $f(y) = 2y^2 - y + 5$ and $g(y) = 1 - 10y$.
 $(-20y^2 + 10y + 6)$

[MTH311] The value of $\lim_{(x,y) \rightarrow (5,1)} \frac{xy}{x+y}$ is $\frac{5}{6}$

[MTH311] Find $\frac{dy}{dx}$, if $5y^3 + 2x^4 = x$
 $\frac{1 - 8x^3}{15y^2}$

[MTH311] If $f(x) = \sqrt{x-5}$. Find $(f^{-1})' \cdot f(x)$.
 x

[MTH311] Does $\lim_{(x,y) \rightarrow (0,0)} \frac{x-2y}{y+3x}$ exist?
No

[MTH311] $\lim_{h \rightarrow 0} \frac{2(-3+h)^2 - 18}{h}$ when computed gives -12

[MTH311] Find $\frac{\partial h}{\partial x}$ if $h(x,y,z) = y^2 \ln(x+2y) - \ln(3z)(x^2 + y^2 - 4z)$.
 $\frac{y^2}{x+2y} - 3x^2 \ln(3z)$

[MTH311] The $\lim_{x \rightarrow 1} \frac{4-3x+x^2}{2x^5-7x^2+x}$
 $-\frac{1}{2}$

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