

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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