#Jenny

Finally I get this ebook, thanks for all these I can get now!

#Rio

Cool! I'am really happy

#Markus Jensen

I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

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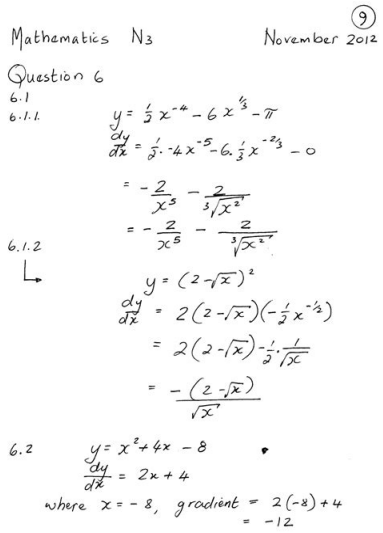
#Che Salsa

My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler

so many fake sites. this is the first one which worked! Many thanks



Mathematics N3 November 2012 (9)

Question 6

6.1

6.1.1 $y = \frac{1}{5}x^{-4} - 6x^{\frac{1}{3}} - \pi$

$\frac{dy}{dx} = \frac{1}{5}\cdot -4x^{-5} - 6.\frac{1}{3}x^{-\frac{2}{3}} - 0$

$= -\frac{2}{x^5} - \frac{2}{\sqrt[3]{x^2}}$

$= -\frac{2}{x^5} - \frac{2}{\sqrt[3]{x^2}}$

6.1.2

$y = (2-\sqrt{x})^2$

$\frac{dy}{dx} = 2(2-\sqrt{x})(-\frac{1}{2}x^{-\frac{1}{2}})$

$= 2(2-\sqrt{x})-\frac{1}{2}\cdot\frac{1}{\sqrt{x}}$

$= -\frac{(2-\sqrt{x})}{\sqrt{x}}$

6.2 $y = x^2 + 4x - 8$

$\frac{dy}{dx} = 2x + 4$

where $x = -8$, gradient $= 2(-8) + 4$

$= -12$

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