

$$y = 2 \tan(x) - [\tan(x^3)]^2$$

$$y' = 2 \sec^2(x) - 2[\tan(x^3)] \sec^2(x^3)(3x^2)$$

$$y' = 2 \sec^2(x) - 6x^5 \tan(x^3) \sec^2(x^3)$$

c. $y = x^2 [\tan(\pi x)]^{-1}$

$$y' = 2x [\tan(\pi x)]^{-1} + x^2 (-1) [\tan(\pi x)]^{-2} \sec^2(\pi x)$$

$$y' = \frac{2x}{\tan(\pi x)} - \frac{x^2 \sec^2(x)}{\tan(\pi x)^2}$$

56. $y = 2 \tan(x)$

$$y' = 2 \sec^2(x)$$

$$y' \left(x = \frac{\pi}{4} \right) = 2 \sec^2 \left(\frac{\pi}{4} \right) = \frac{2}{\cos^2 \left(\frac{\pi}{4} \right)} = \frac{2}{\left(\frac{1}{\sqrt{2}} \right)^2} = \frac{2}{\left(\frac{1}{2} \right)} = 4$$

The tangent line therefore has a slope of 4. Let's grab a point on the original line, so we can sub it in to calculate the y-intercept of the tangent line:

$$y = 2 \tan(x) \rightarrow y \left(x = \frac{\pi}{4} \right) = 2 \tan \left(\frac{\pi}{4} \right) = 2(1) = 2$$

A point on the line is therefore: $\left(\frac{\pi}{4}, 2 \right)$

$$y = mx + b$$

$$y = 4x + b, \text{ sub in } \left(\frac{\pi}{4}, 2 \right):$$

$$2 = 4 \left(\frac{\pi}{4} \right) + b \rightarrow b = 2 - \pi.$$

Therefore, the equation of the tangent line is:

$$y = 4x + 2 - \pi$$

57.

- an airplane flying due south at 400 km/h
- a car traveling southwesterly at 70 km/h
- a bicyclist pedaling in a southeasterly direction at 30 km/h
- a boat traveling due east at 25 km/h

58. Given that: $|\overline{AB}| = 3$, and that $|\overline{AE}| = 8$.

$$\overline{BD} = \overline{BA} + \overline{AD}$$

$$|BD| = \sqrt{|\overline{BA}|^2 + |\overline{AD}|^2} = \sqrt{9 + 9} = \sqrt{18} \cong 4.24$$

Grade 12 Calculus And Vectors Solutions Manual

E Durkheim



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Student Solutions Manual to accompany Vector Calculus Miroslav Lovric, 2007-02-28 A comprehensive solutions manual for students using the Vector Calculus text This book gives a comprehensive and thorough introduction to ideas and major results of the theory of functions of several variables and of modern vector calculus in two and three dimensions Clear and easy to follow writing style carefully crafted examples wide spectrum of applications and numerous illustrations diagrams and graphs invite students to use the textbook actively helping them to both enforce their understanding of the material and to brush up on necessary technical and computational skills The Student Solutions Manual to Accompany Vector Calculus also pays particular attention to material that some students find challenging such as the chain rule Implicit Function Theorem parametrizations or the Change of Variables Theorem

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