

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

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

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

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

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

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

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

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

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

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 $|\overline{AE}| = 8$.

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

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

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AW Chickering



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