

Chapter 3 – Circular functions

Solutions to Exercise 3A

- 1 a The graph of $y = \operatorname{cosec}\left(x + \frac{\pi}{4}\right)$ is a translation of the graph of $y = \operatorname{cosec} x$, $\frac{\pi}{4}$ units in the negative direction of the x axis.

The y axis intercept is:

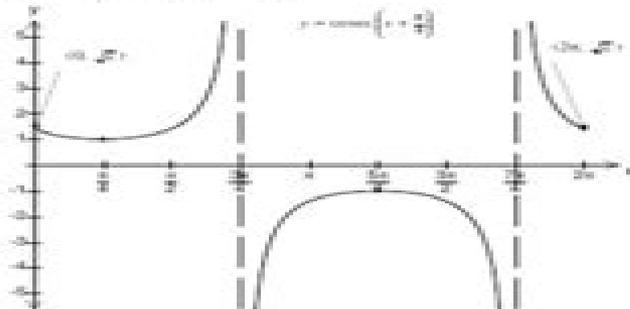
$$\operatorname{cosec}\left(\frac{\pi}{4}\right) = \sqrt{2}.$$

Asymptotes will occur when

$$\sin\left(x + \frac{\pi}{4}\right) = 0$$

Therefore the asymptotes are at

$$x = \frac{3\pi}{4} \text{ and } x = \frac{7\pi}{4}.$$



- b The graph of $y = \sec\left(x - \frac{\pi}{6}\right)$ is a translation of the graph of $y = \sec x$, $\frac{\pi}{6}$ units in the positive direction of the x axis.

The y axis intercept is

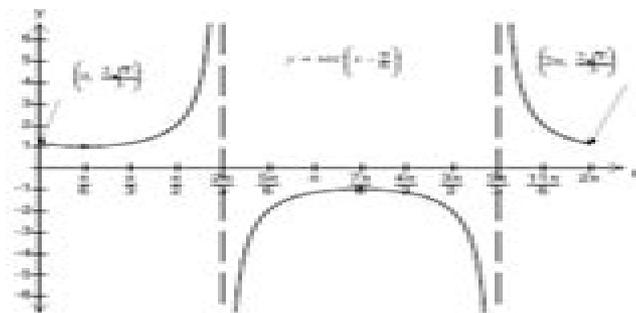
$$\sec\left(-\frac{\pi}{6}\right) = \frac{2\sqrt{3}}{3}.$$

Asymptotes will occur when

$$\cos\left(x - \frac{\pi}{6}\right) = 0$$

Therefore the asymptotes are at

$$x = \frac{2\pi}{3} \text{ and } x = \frac{5\pi}{3}.$$



- c The graph of $y = \cot\left(x + \frac{\pi}{3}\right)$ is a translation of the graph of $y = \cot x$, $\frac{\pi}{3}$ units in the negative direction of the x axis.

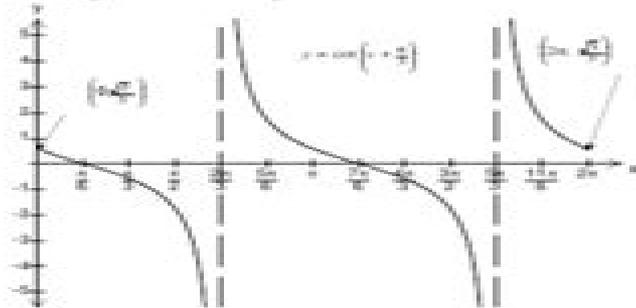
The y axis intercept is $\cot \frac{\pi}{3} = \frac{\sqrt{3}}{3}$.

Asymptotes will occur when

$$\tan\left(x + \frac{\pi}{3}\right) = 0$$

Therefore the asymptotes are at

$$x = \frac{2\pi}{3} \text{ and } x = \frac{5\pi}{3}.$$



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H Kauffman



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