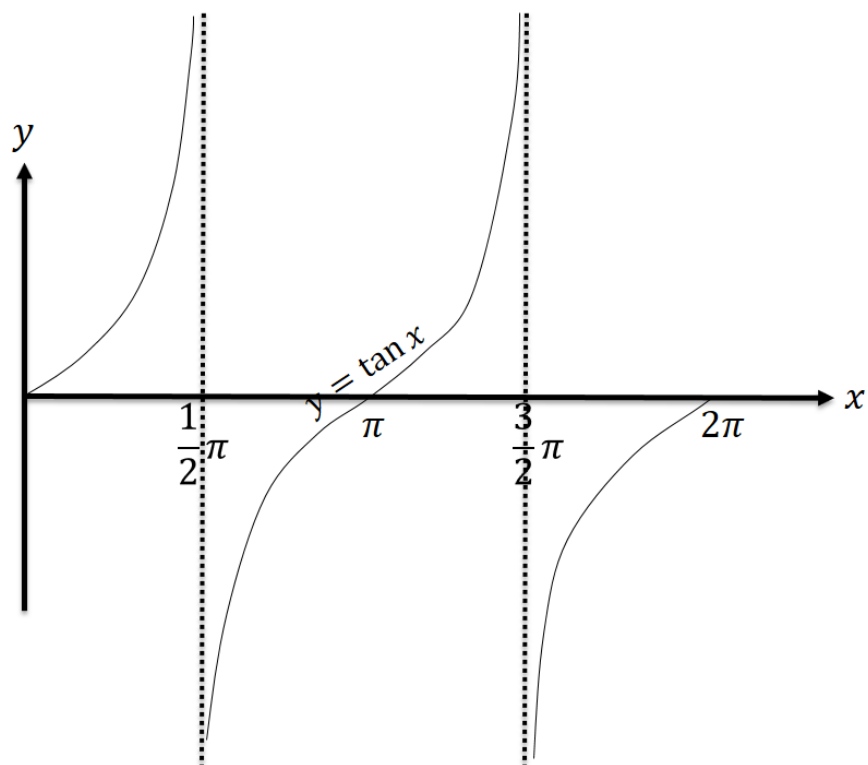
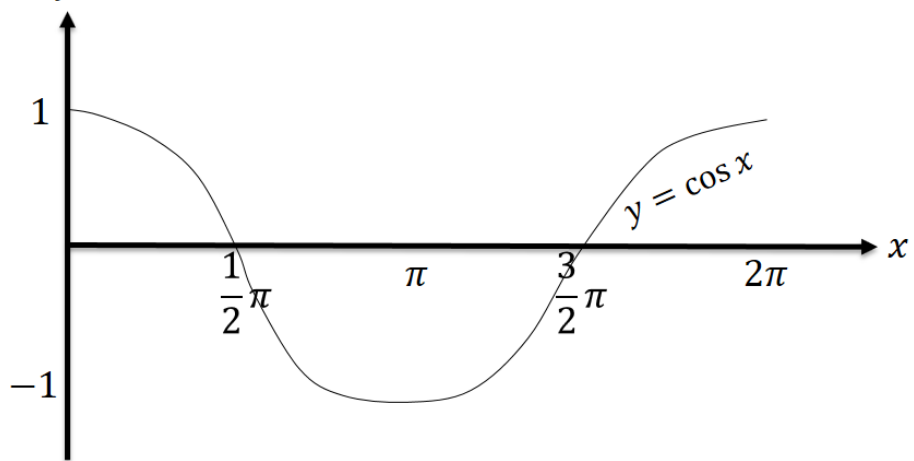
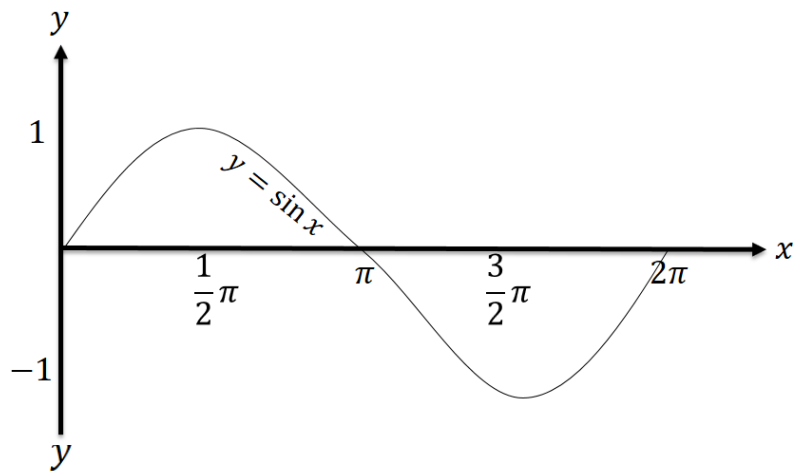


Sketches

To draw a graph of $y = \operatorname{cosec} x$, start with a graph of $y = \sin x$, then consider what happens when we reciprocate each y value.



Example

[Textbook]

- Sketch the graph of $y = 4\operatorname{cosec} x$, $-\pi \leq x \leq \pi$.
- On the same axes, sketch the line $y = x$.
- State the number of solutions to the equation $4\operatorname{cosec} x - x = 0$, $-\pi \leq x \leq \pi$

Test Your Understanding

Sketch $y = -1 + \sec 2x$ in the interval $0 \leq x < 360^\circ$.