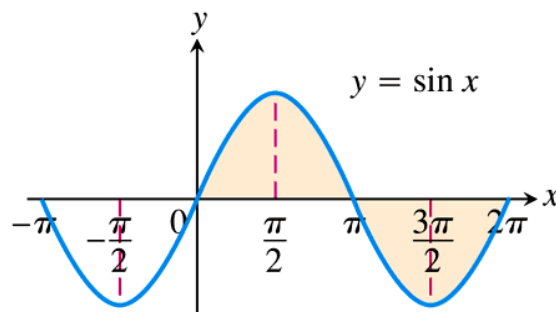


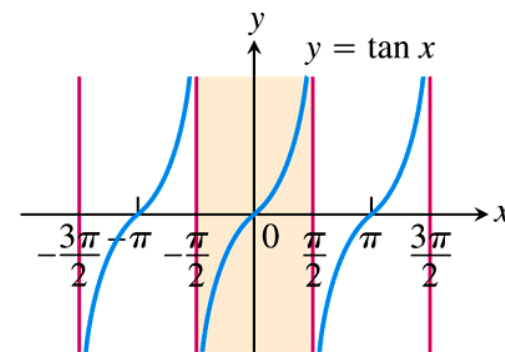
Domain: $-\infty < x < \infty$
 Range: $-1 \leq y \leq 1$
 Period: 2π

(a)



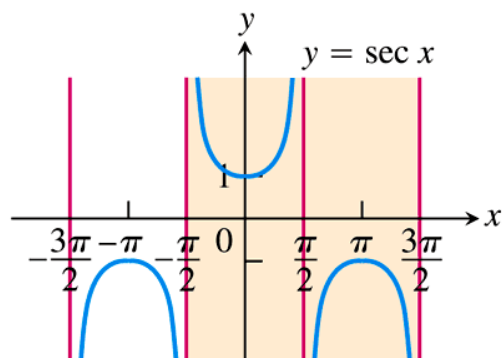
Domain: $-\infty < x < \infty$
 Range: $-1 \leq y \leq 1$
 Period: 2π

(b)



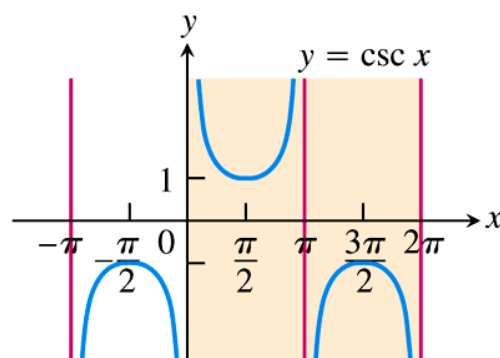
Domain: $x \neq \pm \frac{\pi}{2}, \pm \frac{3\pi}{2}, \dots$
 Range: $-\infty < y < \infty$
 Period: π

(c)



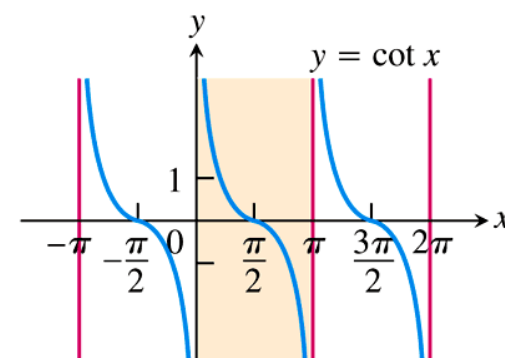
Domain: $x \neq \pm \frac{\pi}{2}, \pm \frac{3\pi}{2}, \dots$
 Range: $y \leq -1$ or $y \geq 1$
 Period: 2π

(d)



Domain: $x \neq 0, \pm\pi, \pm2\pi, \dots$
 Range: $y \leq -1$ or $y \geq 1$
 Period: 2π

(e)



Domain: $x \neq 0, \pm\pi, \pm2\pi, \dots$
 Range: $-\infty < y < \infty$
 Period: π

(f)

FIGURE 1.46 Graphs of the six basic trigonometric functions using radian measure. The shading for each trigonometric function indicates its periodicity.