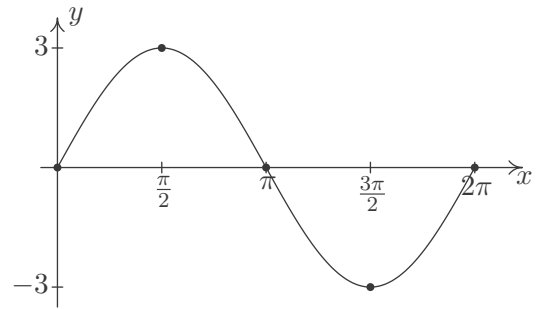
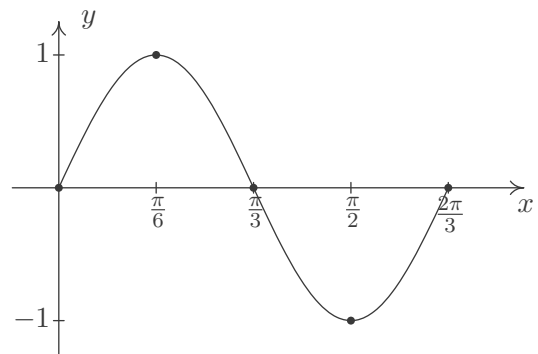


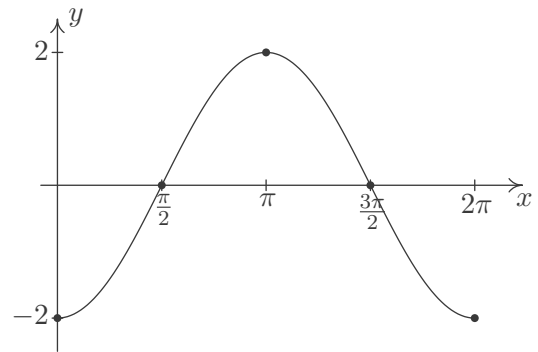
1. $y = 3 \sin x$
 Period:
 Amplitude:
 Phase Shift:
 Vertical Shift:



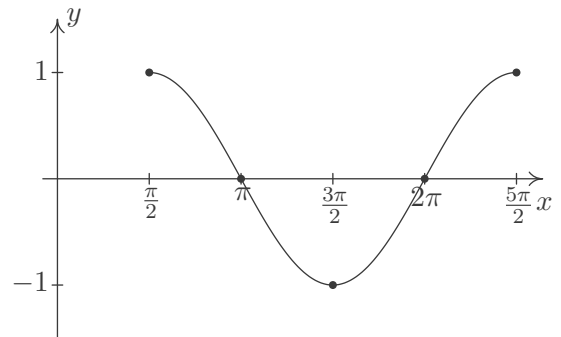
2. $y = \sin(2x)$
 Period:
 Amplitude:
 Phase Shift:
 Vertical Shift:



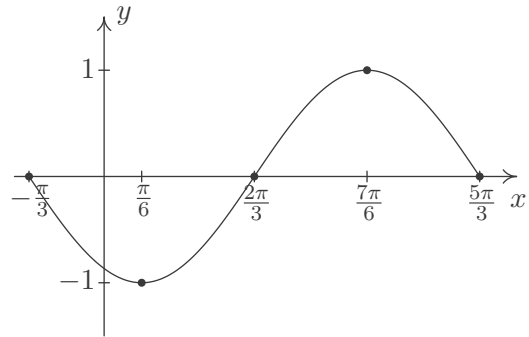
3. $y = -2 \cos(x - \pi)$
 Period:
 Amplitude:
 Phase Shift:
 Vertical Shift:



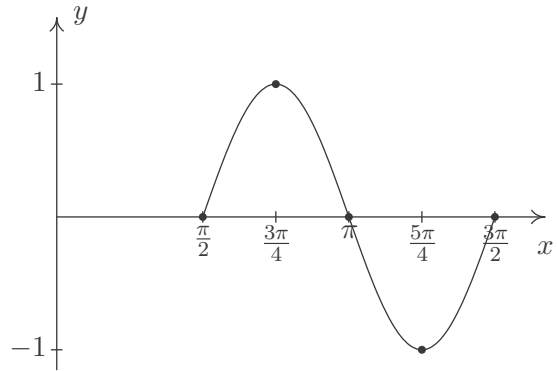
4. $y = \cos(x - \pi)$
 Period:
 Amplitude:
 Phase Shift:
 Vertical Shift:



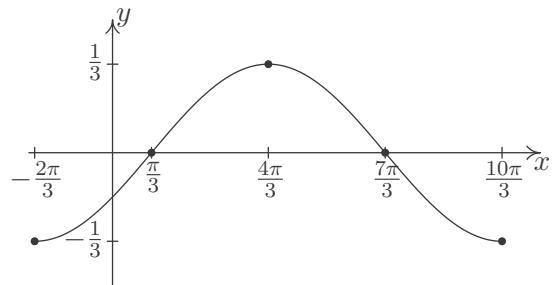
5. $y = -$
 Period:
 Amplitude:
 Phase Shift: -
 Vertical Shift:



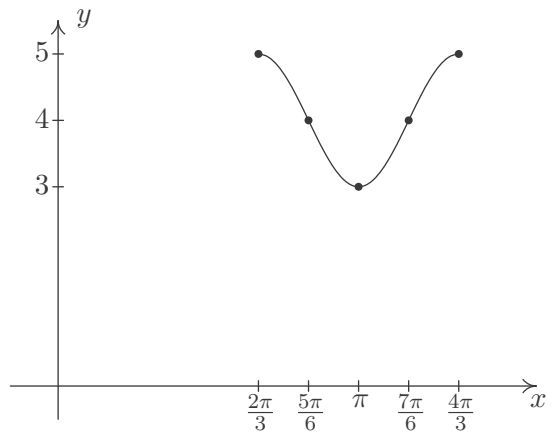
6. $y = s$
 Period:
 Amplitude:
 Phase Shift:
 Vertical Shift:



7. $y =$
 Period
 Amplitude:
 Phase Shift:
 Vertical Shift:



8. $y = c$
 Period:
 Amplitude:
 Phase Shift:
 Vertical Shift:



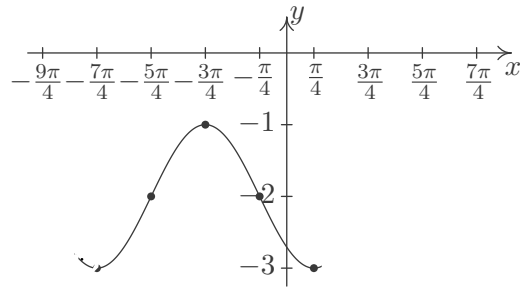
9. $y =$

Period:

Amplitude:

Phase Shift:

Vertical Shift:



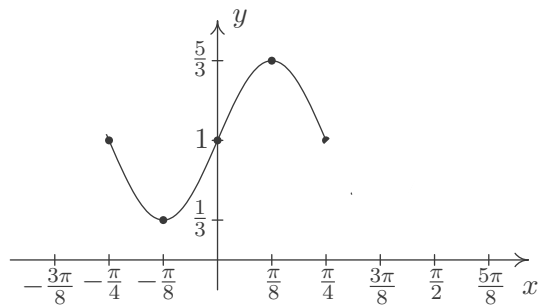
10. $y =$

Period:

Amplitude:

Phase Shift:

Vertical Shift:



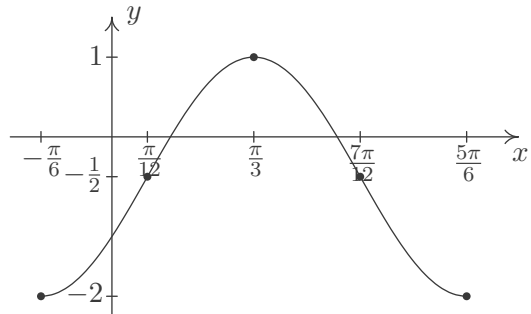
11. $y =$

Period:

Amplitude:

Phase Shift:

Vertical Shift:



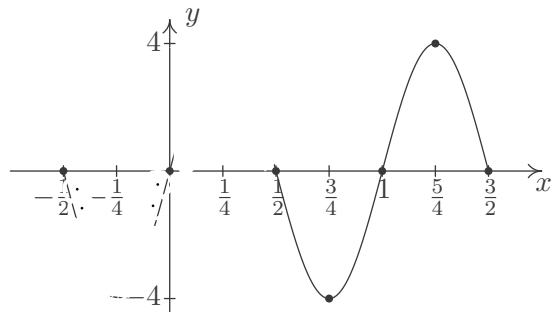
12. $y = 4 \cos(x)$

Period:

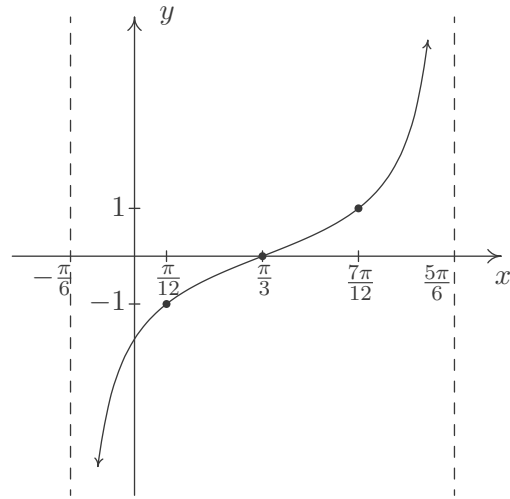
Amplitude:

Phase Shift:

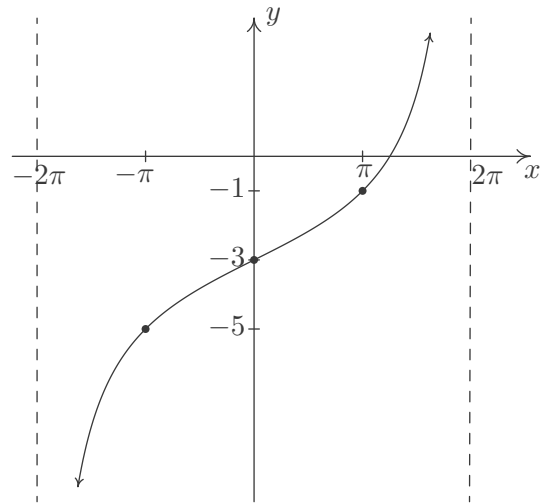
Vertical Shift:



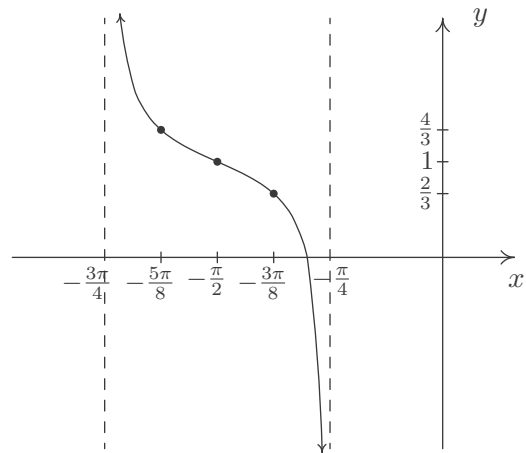
13. $y = \tan\left(x - \frac{\pi}{3}\right)$
 Period: π



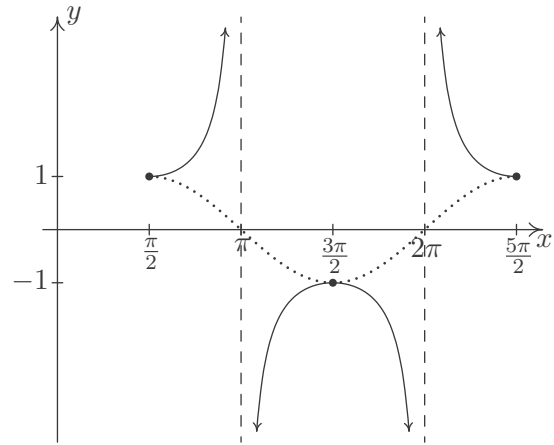
14. $y = 2 \tan\left(\frac{1}{4}x\right) - 3$
 Period: 4π



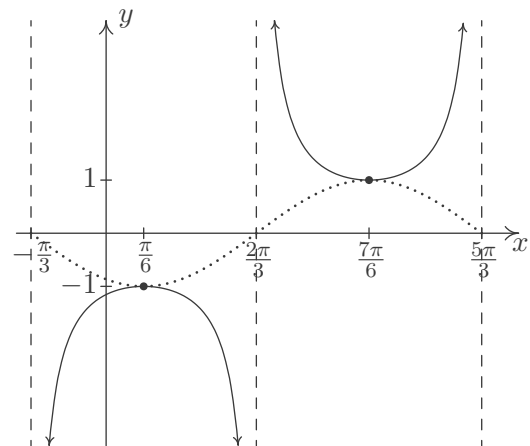
15. $y = \frac{1}{3} \tan(-2x - \pi) + 1$
 is equivalent to
 $y = -\frac{1}{3} \tan(2x + \pi) + 1$
 via the Even / Odd identity for tangent.
 Period: $\frac{\pi}{2}$



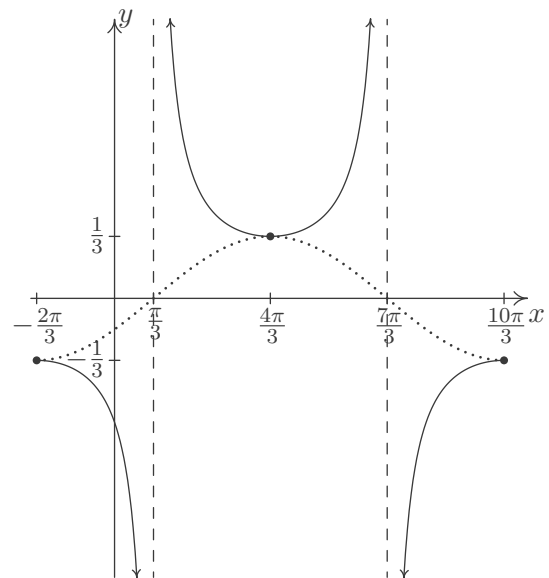
16. $y = \sec\left(x - \frac{\pi}{2}\right)$
 Start with $y = \cos\left(x - \frac{\pi}{2}\right)$
 Period: 2π



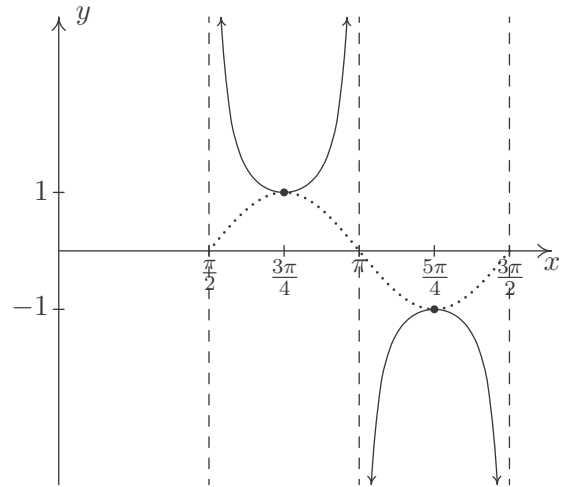
17. $y = -\csc\left(x + \frac{\pi}{3}\right)$
 Start with $y = -\sin\left(x + \frac{\pi}{3}\right)$
 Period: 2π



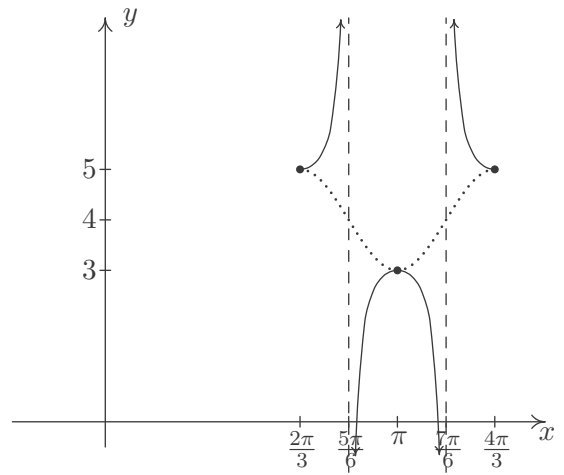
18. $y = -\frac{1}{3}\sec\left(\frac{1}{2}x + \frac{\pi}{3}\right)$
 Start with $y = -\frac{1}{3}\cos\left(\frac{1}{2}x + \frac{\pi}{3}\right)$
 Period: 4π



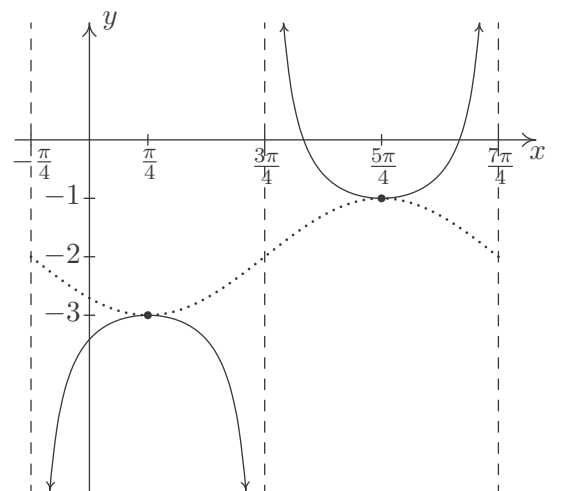
19. $y = \csc(2x - \pi)$
 Start with $y = \sin(2x - \pi)$
 Period: π



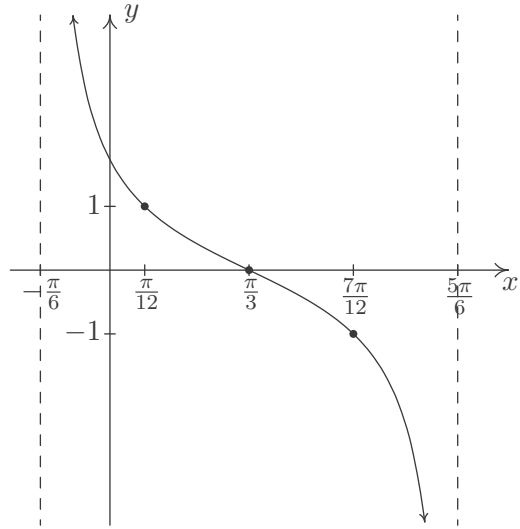
20. $y = \sec(3x - 2\pi) + 4$
 Start with $y = \cos(3x - 2\pi) + 4$
 Period: $\frac{2\pi}{3}$



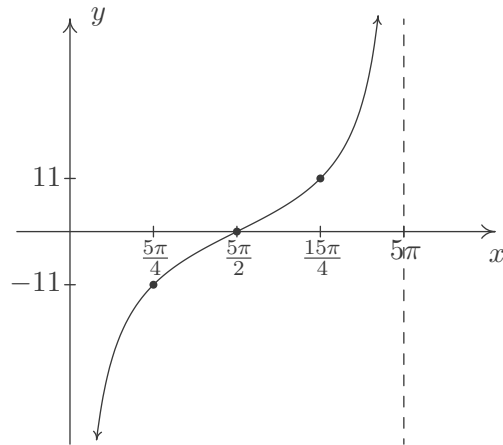
21. $y = \csc\left(-x - \frac{\pi}{4}\right) - 2$
 Start with $y = \sin\left(-x - \frac{\pi}{4}\right) - 2$
 Period: 2π



22. $y = \cot\left(x + \frac{\pi}{6}\right)$
 Period: π



23. $y = -11 \cot\left(\frac{1}{5}x\right)$
 Period: 5π



24. $y = \frac{1}{3} \cot\left(2x + \frac{3\pi}{2}\right) + 1$
 Period: $\frac{\pi}{2}$

