

[12-02-06-T11]
Graphs of trig functions

- **Graphs.** Label the numbers on the x-axis at which the function takes a value of zero. Also label the numbers on the x-axis at which the function attains a local maximum or a local minimum value. Indicate asymptotic lines, when present, by dashing them. Your graph must include one full period.

[1] Graph $y = \sin 2x$.

[2] Graph $y = \sin(2x - \frac{\pi}{2})$.

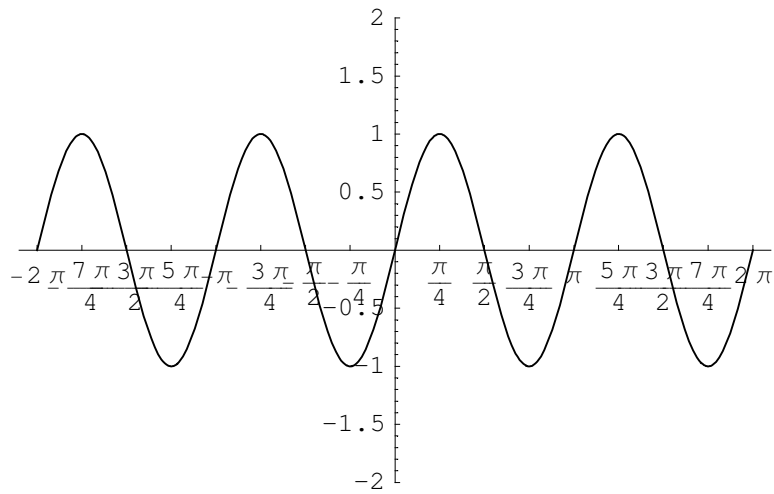
[3] Graph $y = \frac{3}{2} \sin(3x - \pi)$.

[4] Graph $y = \sin(\frac{x}{2} - \frac{\pi}{6})$.

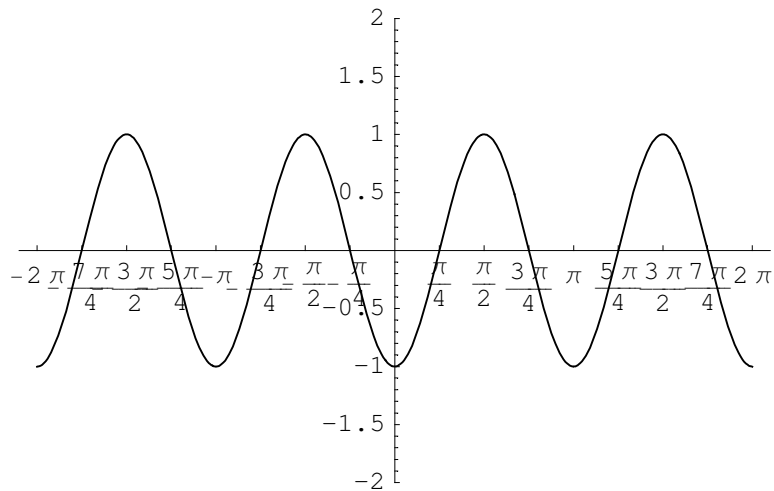
[5] Graph $y = \sin(\frac{x}{2} + \frac{\pi}{6})$.

Answers

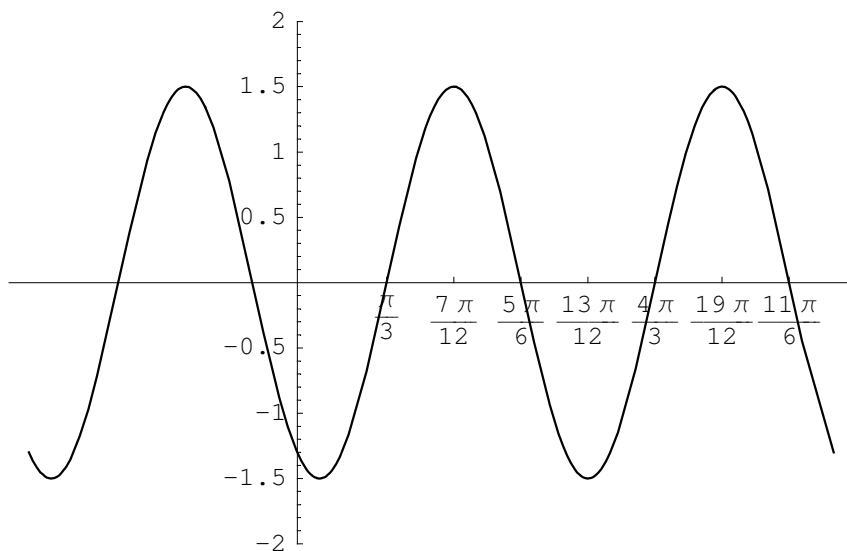
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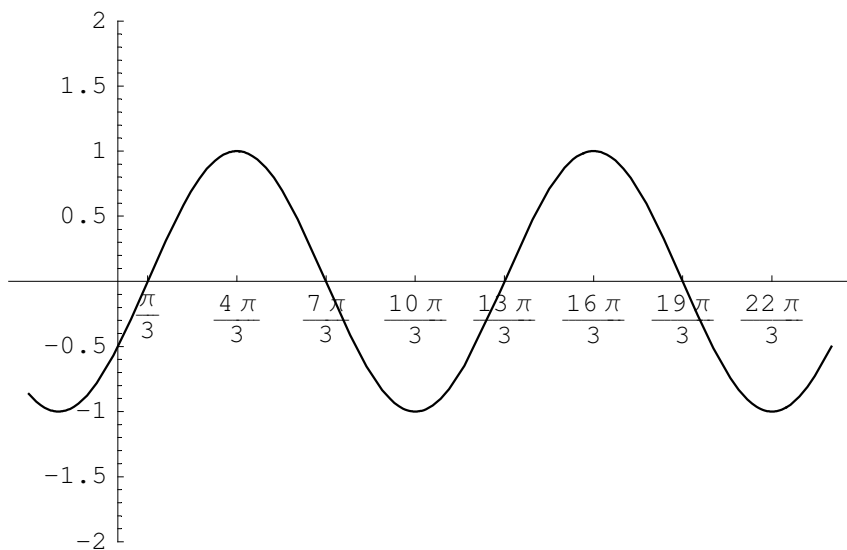
[2] Graph $y = \sin(2x - \frac{\pi}{2})$.



[3] Graph $y = \frac{3}{2} \sin(3x - \pi)$.



[4] Graph $y = \sin\left(\frac{x}{2} - \frac{\pi}{6}\right)$.



[5] Graph $y = \sin\left(\frac{x}{2} + \frac{\pi}{6}\right)$.

