PRECALCULUS   TRIG EQUATIONS AND THEIR ASYMPTOTES

Match the equation with its asymptotes.*Then find domain, range, and period.

Equation   Asymptotes

____1. $y = \frac{1}{2}\tan x + 3$ A. $k\pi$

____2. $y = 2\sec x$ B. $\frac{\pi}{2} + k\pi$

____3. $y = \csc 2x - 4$ C. $\frac{\pi}{4} + \frac{k\pi}{2}$

____4. $y = \tan x + 2$ D. $\frac{k\pi}{2}$

____5. $y = \sec \frac{1}{2}x + 4$ E. $\pi + 2k\pi$

____6. $y = -3\cot x - 2$ F. $2k\pi$

____7. $y = \cot(x - \frac{\pi}{2})$ G. $\frac{\pi}{4} + k\pi$

____8. $y = \sec \frac{1}{2}x$

____9. $y = \csc(2x - \frac{\pi}{2})$

____10. $y = \tan(x + \frac{\pi}{2})$

____11. $y = \sec(x - \frac{\pi}{2})$

____12. $y = \tan(2x + \frac{\pi}{2})$

____13. $y = -4\tan \frac{1}{2}x + 3$
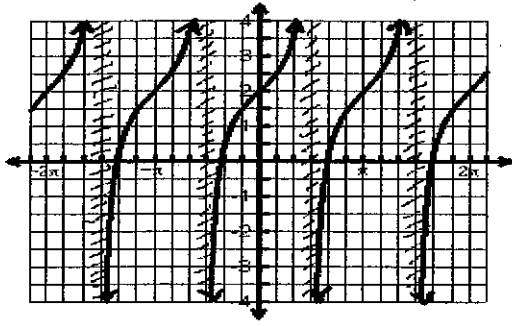
____14. $y = \csc \frac{1}{2}x + 3$

____15. $y = \cot(x - \frac{\pi}{4})$
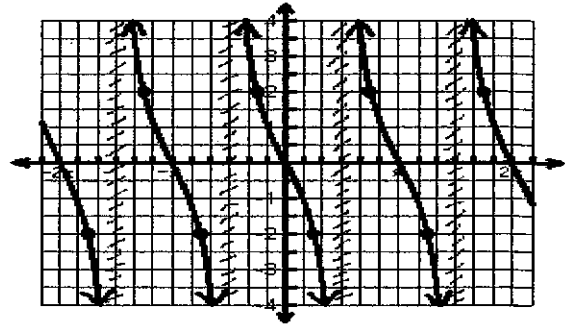
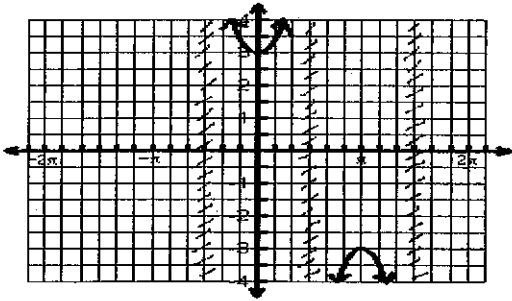____16. $y = 5\sec(2x + \pi) + 1$
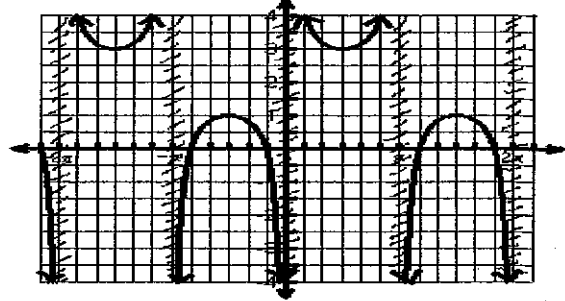
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Writing Trig Equations WS #1
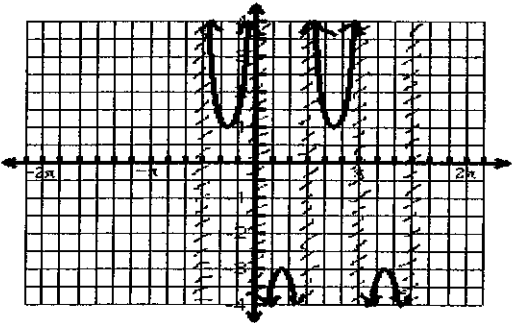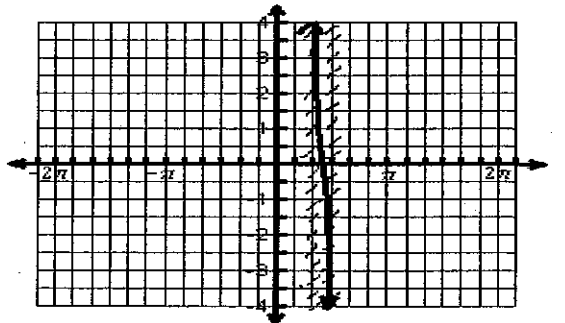
1)

2)

3)

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