

### Worksheet Trig Graphs

Sketch one complete cycles of each graph. Label all critical points.

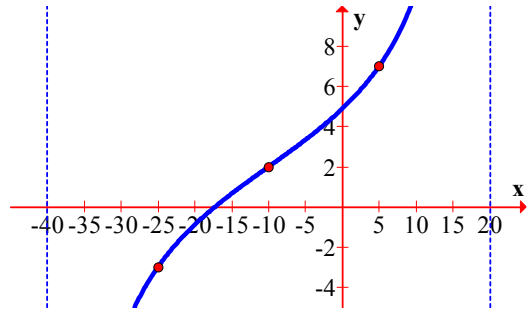
1. $y = 2 + 5 \tan 3(\theta + 10^\circ)$ (degrees)	9. $y = 5 + 7 \cot 2\left(x - \frac{\pi}{4}\right)$ (radians)
2. $y = 4 + 6 \sec \frac{\pi}{2}(x + 1)$ (radians)	10. $y = 1 + 2 \tan \pi(x + 3)$ (radians)
3. $y = -3 + 2 \csc 3(\theta + 10^\circ)$ (degrees)	11. $y = -1 + 2 \cot \frac{1}{4}(x - \pi)$ (radians)
4. $y = -3 + \cot \frac{1}{2}(\theta - 75^\circ)$ (degrees)	12. $y = 2 + 5 \tan \frac{\pi}{12}(x + 17)$ (radians)
5. $y = -2 + 3 \cot \frac{3}{2}(\theta - 30^\circ)$ (degrees)	13. $y = 3 + 2 \csc \frac{\pi}{5}(x + 5)$ (radians)
6. $y = 3 + 4 \tan \frac{\pi}{10}(x + 2)$ (radians)	14. $y = 5 + 7 \sec \frac{3}{2}(x - 150^\circ)$ (degrees)
7. $y = 10 + 7 \csc 12(\theta + 15^\circ)$ (degrees)	15. $y = -6 + 17 \csc 2\left(x + \frac{3\pi}{4}\right)$ (radians)
8. $y = 0.7 + 1.5 \sec\left(x - \frac{\pi}{2}\right)$ (radians)	16. $y = 1 - 4 \sec \pi(x + 3)$ (radians)

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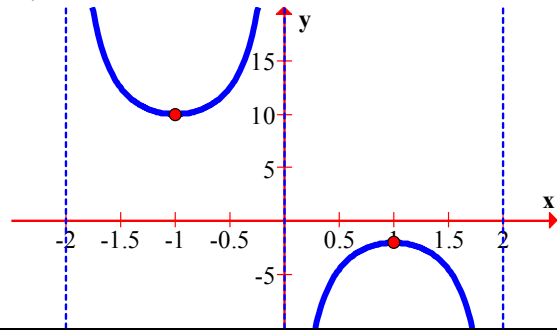
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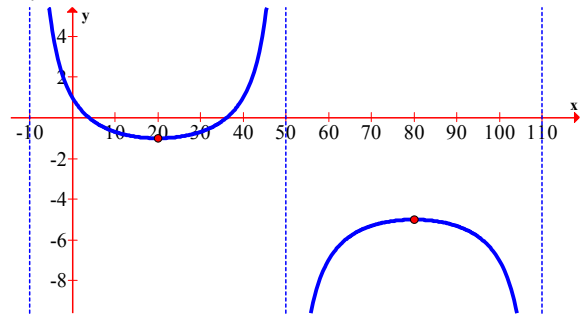
1.



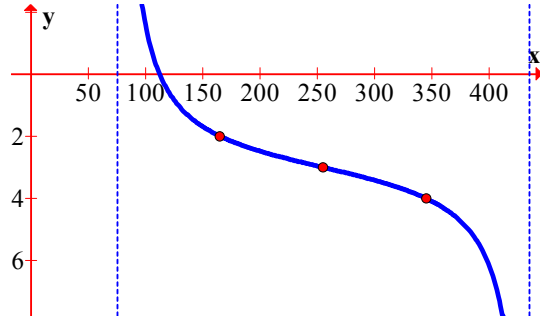
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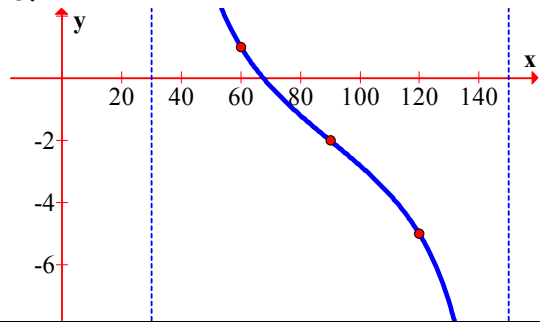
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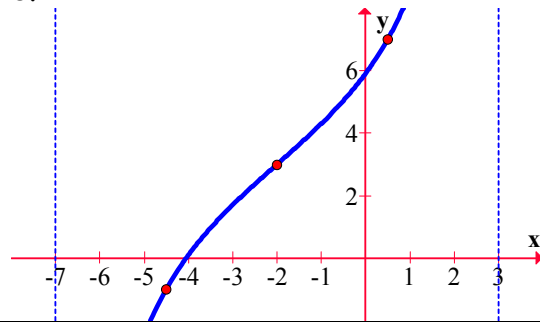
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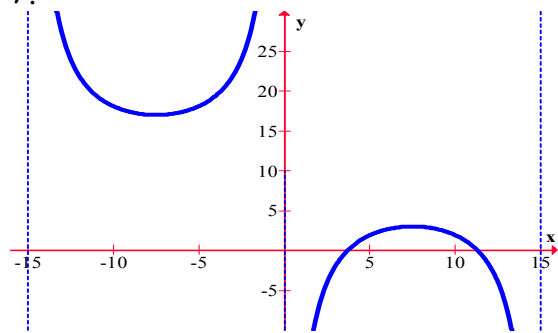
5.



6.



7.



8.

