

Graphing Tangent Transformations

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Graph each function using radians.

1) $y = \tan 2\theta$

2) $y = \tan \frac{\theta}{2}$

3) $y = \tan \left(\theta + \frac{5\pi}{4} \right)$

4) $y = \tan \left(\theta - \frac{\pi}{4} \right)$

5) $y = -1 + \tan \theta$

6) $y = \tan \theta + 2$

7) $y = \tan \left(\theta - \frac{\pi}{2} \right) - 2$

8) $y = 1 + \tan \left(\theta - \frac{3\pi}{4} \right)$

9) $y = 3 \tan \theta$

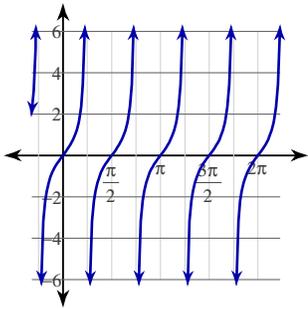
10) $y = \frac{1}{2} \cdot \tan \theta$

11) $y = \frac{1}{2} \cdot \tan \left(\theta - \frac{\pi}{2} \right) + 1$

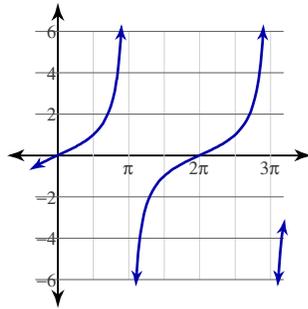
12) $y = 3 \tan \left(\theta + \frac{\pi}{2} \right) - 2$

Answers to Graphing Tangent Transformations

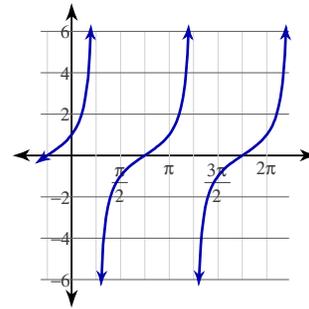
1)



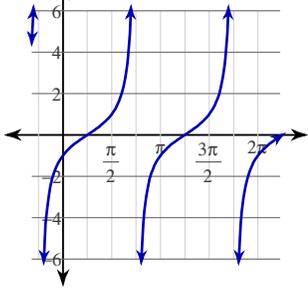
2)



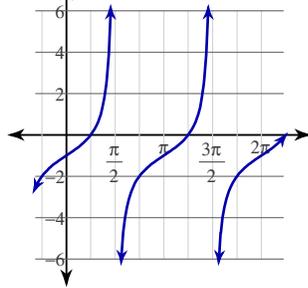
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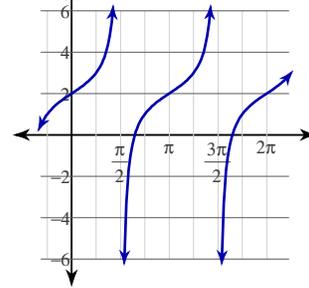
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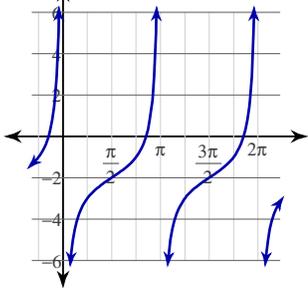
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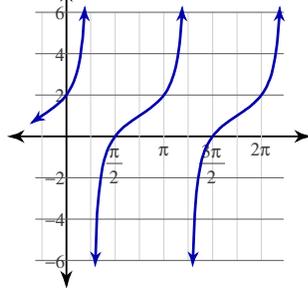
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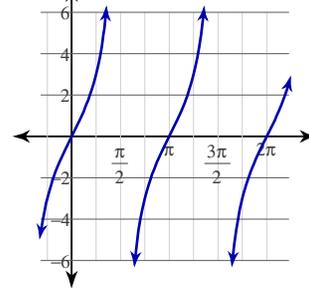
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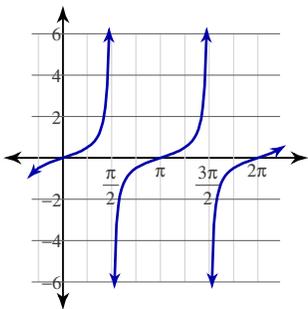
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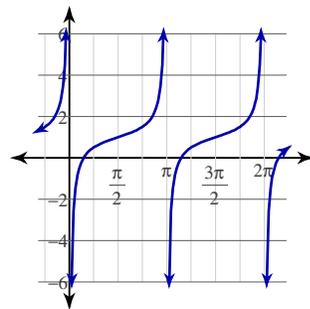
9)



10)



11)



12)

