

1. Graph $y = \tan\left(x + \frac{\pi}{2}\right)$ What is the period?

2. Graph $y = 3\sec\left(x + \frac{\pi}{2}\right)$ What is the period?

3. Graph $y = 3\cot\left(2x + \frac{\pi}{2}\right)$ What is the period?

4. Graph $y = 3\csc\left(2x - \frac{\pi}{2}\right)$ What is the period?

5. Graph $y = \tan(x) + 2x$ What is the period?

6. $\cos(\cos^{-1}(\frac{1}{2})) = \underline{\hspace{2cm}}$ $\cos(\cos^{-1}(\frac{1}{237})) = \underline{\hspace{2cm}}$ $\cos(\cos^{-1}(237)) = \underline{\hspace{2cm}}$
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7. Graph $y = \tan^{-1}(x)$ and $y = \frac{\pi}{2} - \tan^{-1}(\frac{1}{x})$

8. Graph $y = \sin^{-1}(\sin(x))$ What are the domain and range of this function?