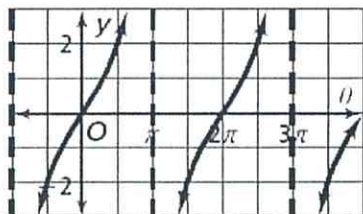
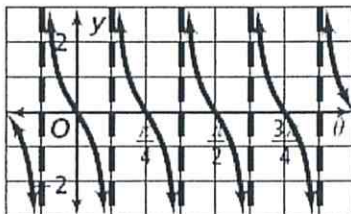


Identify the period and write a tangent equation for the following graphs.

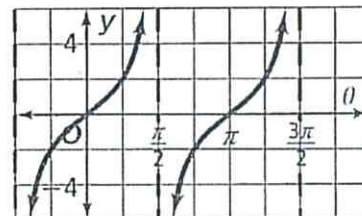
1.



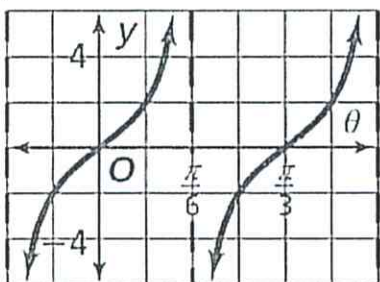
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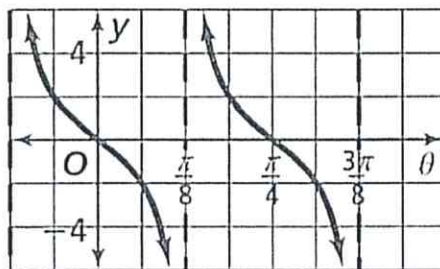
3.



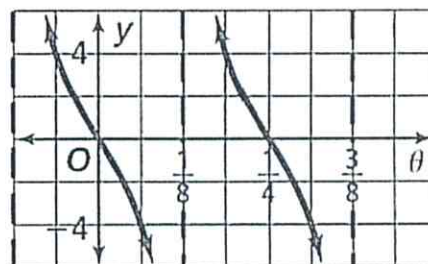
4.



5.



6.



Write tangent equation given the following information.

7. Vertical stretch = 4, period = 3π

10. Vertical stretch = 1, vertical reflection,
period = $\frac{1}{3}$

8. Vertical stretch = 2, period = $\frac{\pi}{3}$,
Vertical reflection

11. Vertical shrink = $\frac{1}{2}$, period = 5π

9. Vertical stretch = 12, period = 3

12. Vertical stretch = 3, period = $\frac{\pi}{5}$

Graph 2 cycles of the tangent function. Show the table.

13. $y = 3\tan\frac{\theta}{6}$

14. $y = -4\tan 8\theta$

15. $y = -\frac{1}{2}\tan 4\pi\theta$