HONORS – Graphing Sine Function Practice – USE SEPARATE PAPER

Sketch one cycle of each sine curve. Assume $a > 0$. Write an equation for each graph.

7. amplitude $= 2$; period $= \pi$

8. amplitude $= 3$; period $= 2\pi$

9. amplitude $= 2$; period $= \frac{\pi}{2}$

10. amplitude $= 2$; period $= \frac{\pi}{4}$

13. $y = 2 \sin \theta$

14. $y = -2 \sin 4\theta$

15. $y = \sin 2\theta$

16. $y = 3 \sin \frac{\theta}{2}$

17. $y = -\sin 2\theta$

18. $y = -5 \sin 3\theta$

19. $y = -3 \sin 2\theta$

20. $y = 4 \sin 5\theta$

21. $y = -4 \sin \frac{\theta}{2}$

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