

SM3 8.4 Modeling Periodic Behavior Part 2 Answers

****Hint: These problems are very similar to the test!**

7. A

8. D

9. C

10. B

11. A

12. A

13. B

14. Amplitude: 1 Period: 2π Phase Shift: $\frac{\pi}{4}$

15. Amplitude: 2 Period: 2π Phase Shift: $-\frac{\pi}{3}$

16. Amplitude: 1 Period: $\frac{2\pi}{3}$ Phase Shift: $\frac{\pi}{3}$

17. Amplitude: 1 Period: 2π

18. Amplitude: 3 Period: π

19. $f(\theta) = -2\sin(x - \frac{\pi}{2}) - 3$

20. $f(\theta) = 8 \cos 3(x) + 9$