DIRECTIONS: Determine if the following graphs represent periodic functions. If not, explain why. It the graph is periodic find the period.

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| 1) | 2) | 3)  |

DIRECTIONS: (a) Highlight one cycle of each of the following periodic graphs. (b) Find the period. (c) Find the amplitude.

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| 4)  |  5) | 6) |

DIRECTIONS: Graph one cycle of each of the following trig functions. YOU MUST INCLUDE A TABLE.

7) $y=2sinθ$ 8) $y=cos⁡(2θ)$

9) $y=-5sin⁡(πθ)$ 10) $y=-6cos\left(4θ\right)$

DIRECTIONS: Write an equation that matches the given description.

11) A positive cosine function with amplitude of 3 and period of $4π$.

12) A negative sine function with amplitude of 4 and period of 3.

13) A positive sine function with amplitude of 10 and period of $π$.

DIRECTIONS: Write an equation that satisfies the given periodic graph.

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| 15) | 16)  | 17)  |