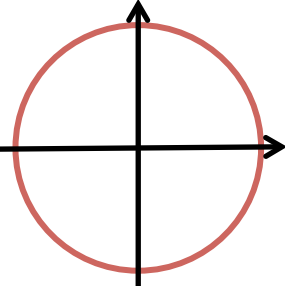
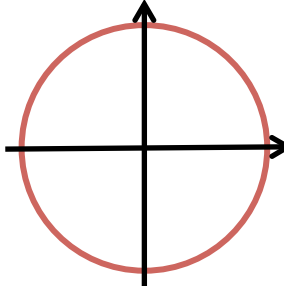
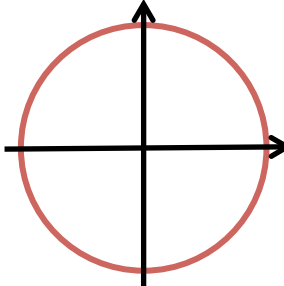
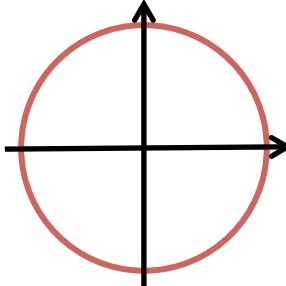
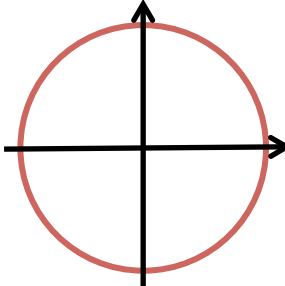
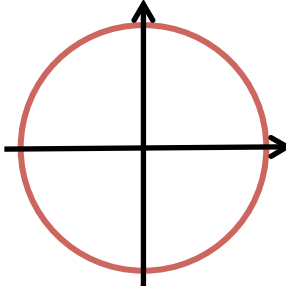
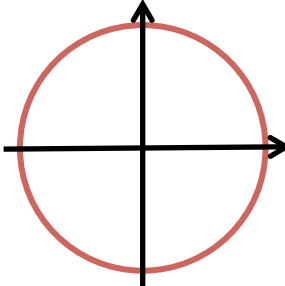
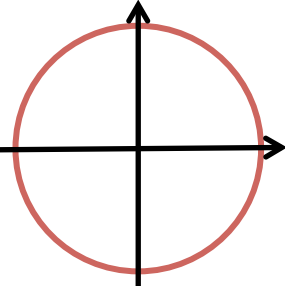
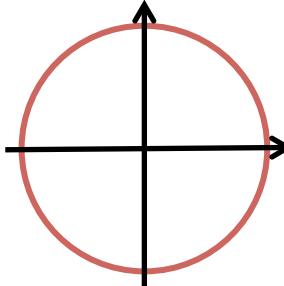
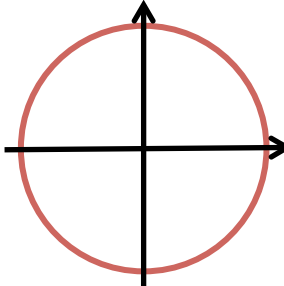
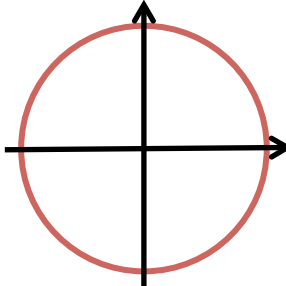
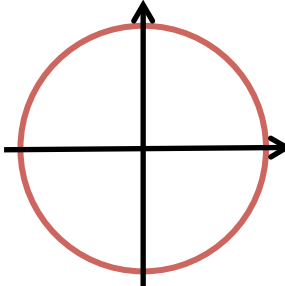
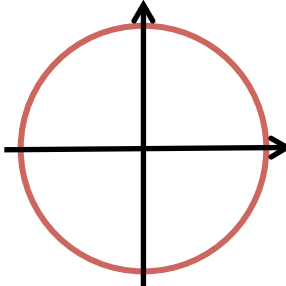
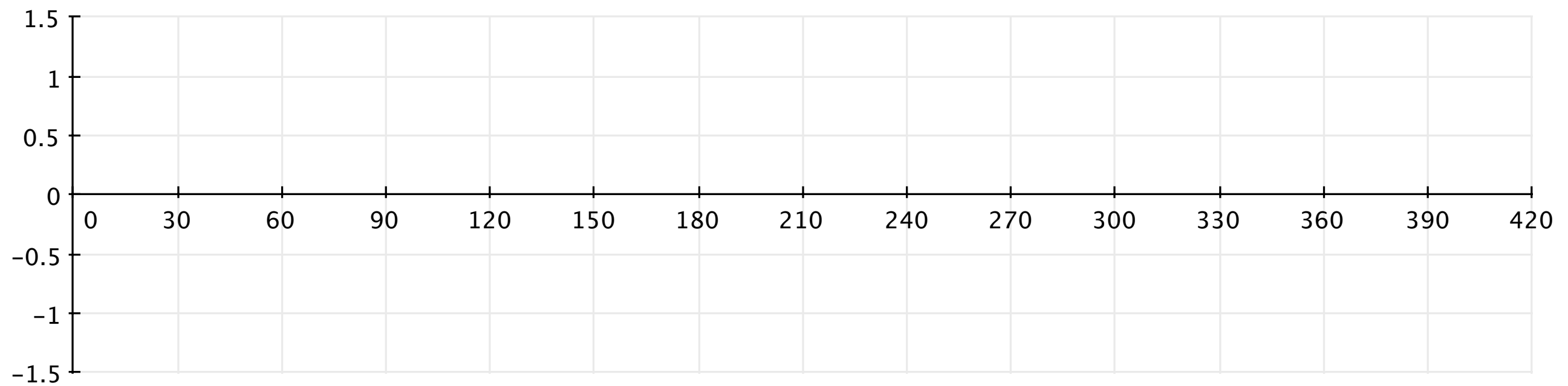


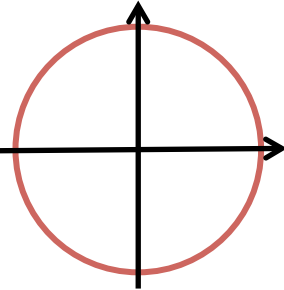
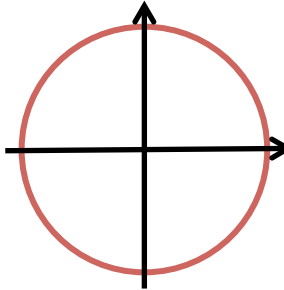
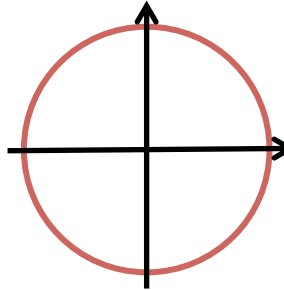
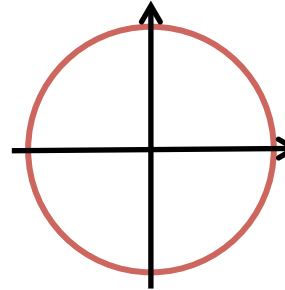
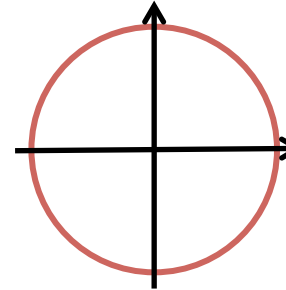
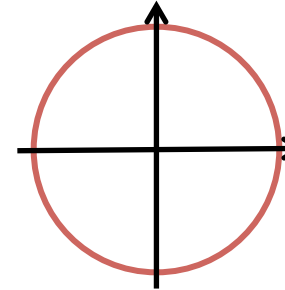
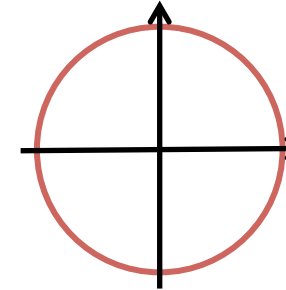
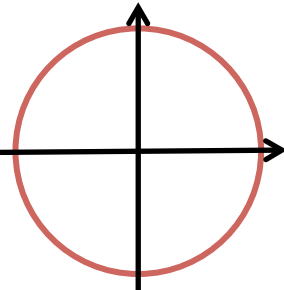
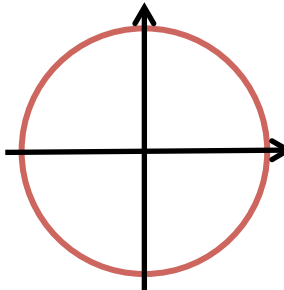
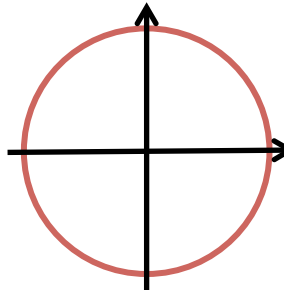
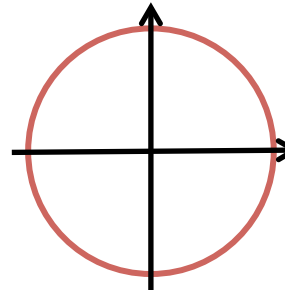
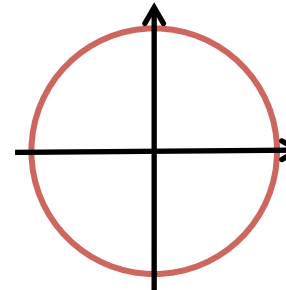
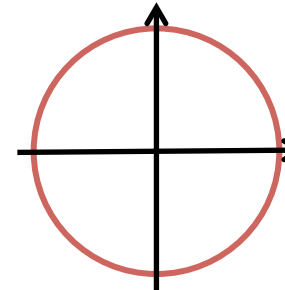
8.2 Exploring the Graphs of Periodic Functions (p.521)

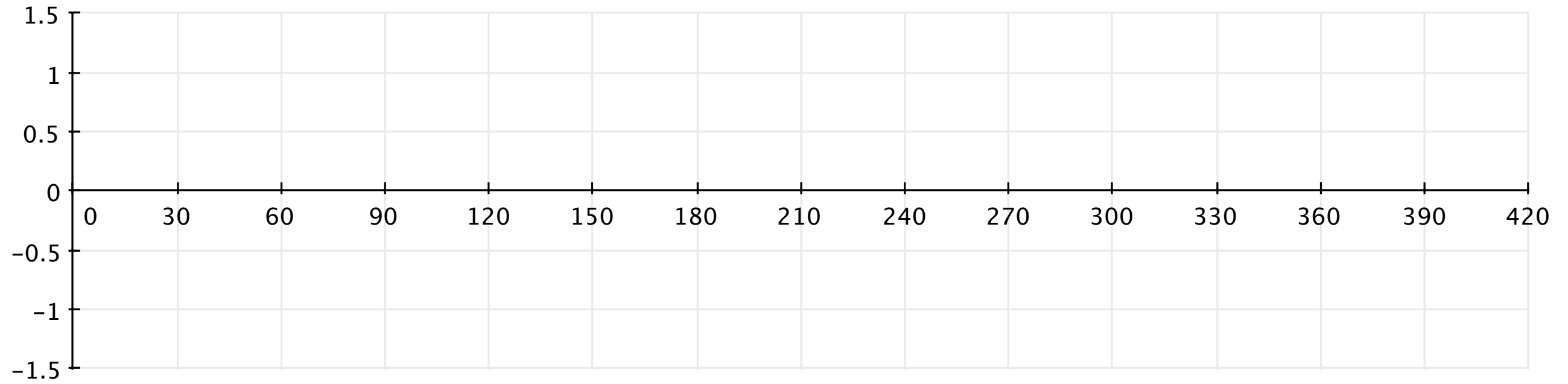
1. Graph $y = \sin\theta$, $0^\circ \leq \theta \leq 360^\circ$

0°or _____	30°or _____	60°or _____	90°or _____	120°or _____	150°or _____	180°or _____
						
210°or _____	240°or _____	270°or _____	300°or _____	330°or _____	360°or _____	
						



1. Graph $y = \cos\theta$, $0^\circ \leq \theta \leq 360^\circ$

0° or _____	30° or _____	60° or _____	90° or _____	120° or _____	150° or _____	180° or _____
						
210° or _____	240° or _____	270° or _____	300° or _____	330° or _____	360° or _____	
						



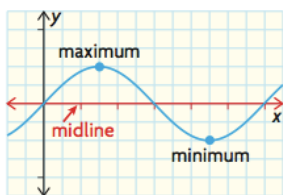
8.2 Exploring the Graphs of Periodic Functions p. 521

Name _____

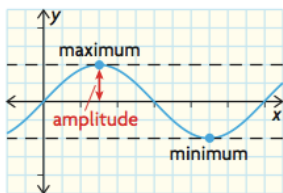
Date _____

Goal: Investigate the characteristics of the graphs of sine and cosine functions.

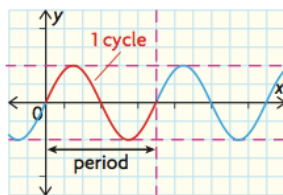
1. **periodic function:** A function whose graph repeats in regular intervals or cycles.
2. **midline:** The horizontal line halfway between the maximum and minimum values of a periodic function.



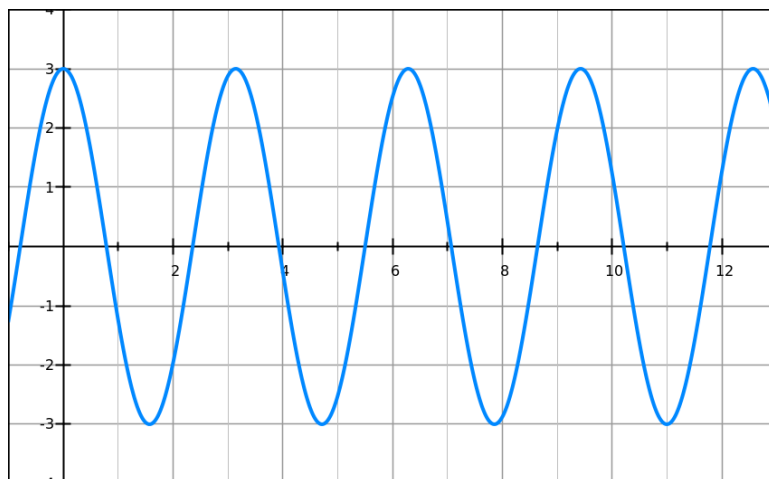
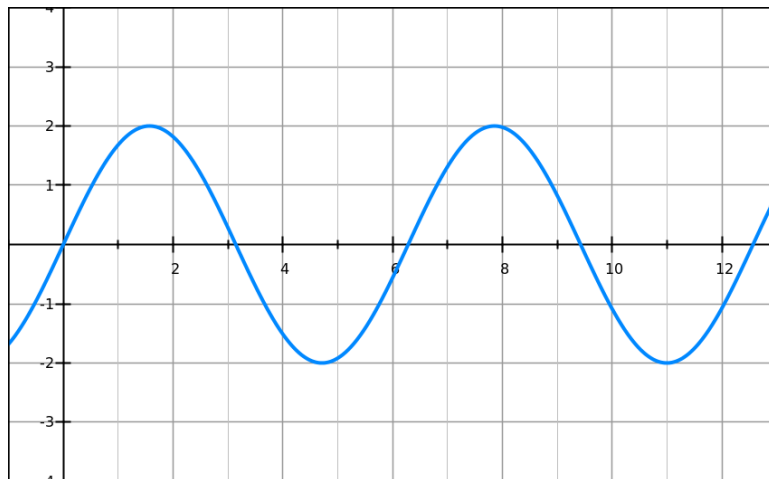
3. **amplitude:** The distance from the midline to either the maximum or minimum value of a periodic function; the amplitude is always expressed as a positive number.



4. **period:** The length of the interval of the domain to complete one cycle.



Example 1: Correctly label the **midline**, **maximum** and **minimum** points, **amplitude** and **period** for the graphs below. State which graph is a **sine** function and which graph is a **cosine** function.



HW: 8.2 pp. 524-525 #1-6