

Name: \_\_\_\_\_

Date: \_\_\_\_\_

### Scaffolded Practice: Key Features of Trigonometric Functions

In problems 1–4, determine the quadrant for each radian angle measure.

1.  $\frac{\pi}{4}$

2.  $\frac{4\pi}{3}$

3.  $\frac{7\pi}{4}$

4.  $\frac{5\pi}{6}$

In problems 5–7, determine the reference angle for each radian angle measure.

5.  $\frac{7\pi}{3}$

6.  $\frac{17\pi}{6}$

7.  $-\frac{3\pi}{4}$

***continued***

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For problems 8–10, identify the amplitude, period, phase shift, vertical displacement, midline, domain, and range of each function.

8.  $f(x) = 2 \sin[\pi(x - 4)] + 1$

9.  $g(x) = \cos[0.5\pi(x - 1)] - 2$

10.  $h(x) = 10 \sin[2\pi(x + 9)]$