

Name: _____ Hour: _____ Date: _____

Writing Equations of Trig Functions Practice

Write an equation based on the following descriptions. **Then use your equation to sketch one cycle of the graph.**

1) Positive sine function with an amplitude of 1 and a period of 2π .

2) Negative sine function with an amplitude of 5 and a period of π .

3) Positive cosine function with an amplitude of 2 and a period of $\frac{\pi}{4}$.

4) A negative cosine function with an amplitude of 1 and a period of 2.

6) Negative cosine function with an amplitude of 1.5 and a period of $\frac{\pi}{3}$.

5) Positive sine function with an amplitude of 3 and a period of 2π .

7) A negative sine function with an amplitude of 10 and a period of 6π .

8) Positive cosine function with an amplitude of $\frac{1}{2}$ and a period of $\frac{\pi}{2}$.