$\qquad$
$\qquad$

Sketch a quick graph of the given model overTWO periods
(label extremes and x intercepts)

## Given Model $f(x)=16 \sin \left(\frac{2 \pi}{20} x\right)$

1. What is the period length of this model? $\qquad$
2. What is the amplitude of this model? $\qquad$
3. What are the first two POSITIVE solutions the given equation? $-11=16 \sin \left(\frac{2 \pi}{20} x\right)$
4. What are ALL of the solutions to the given equation?
5. What are the solutions to this equation over $x \in[45,65]$

Name $\qquad$ Formative Assessments basics of trigonometric Models hour $\qquad$

Sketch a quick graph of the given model overTWO periods (label extremes and $x$ intercepts)

Given Model $f(x)=-20 \sin \left(\frac{2 \pi}{16} x\right)$

1. What is the period length of this model? $\qquad$
2. What is the amplitude of this model? $\qquad$
3. What are the first two POSITIVE solutions the given equation? $18=-20 \sin \left(\frac{2 \pi}{16} x\right)$
4. What are ALL of the solutions to the given equation?
5. What are the solutions to this equation over $x \mathrm{E}[34,52]$

Sketch a quick graph of the given model overTWO periods
(label extremes and x intercepts)


Given Model $f(x)=\frac{5}{16} \cos (12 \pi x)$

1. What is the period length of this model? $\qquad$
2. What is the amplitude of this model? $\qquad$
3. What are the first two POSITIVE solutions the given equation? $0.2=\frac{5}{16} \cos (12 \pi x)$
4. What are ALL of the solutions to the given equation?
5. What are the solutions to this equation overx $\mathrm{E}[0,1 / 2]$

Sketch a quick graph of the given model overTWO periods
(label extremes and x intercepts)

## Given Model $f(x)=\frac{-5}{8} \cos (24 \pi x)$

1. What is the period length of this model? $\qquad$
2. What is the amplitude of this model? $\qquad$
3. What are the first two POSITIVE solutions the given equation?

$$
0.2=\frac{-5}{8} \cos (24 \pi x)
$$

4. What are ALL of the solutions to the given equation?
5. What are the solutions to this equation over $x E[0,1 / 2]$
