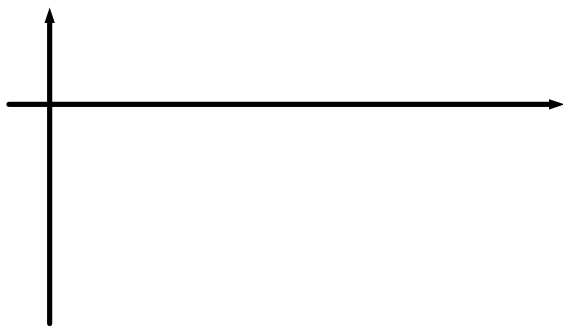


Warmup - Graphing Sin/Cos #4

(Make appropriate tick marks on the x- and y-axis, mark all critical points and provide the following information.)

1. Graph: $f(x) = \cos\left(\frac{\theta}{2} - 2\right) - 3$



domain:

period:

phase shift:

vertical shift:

amplitude:

range: