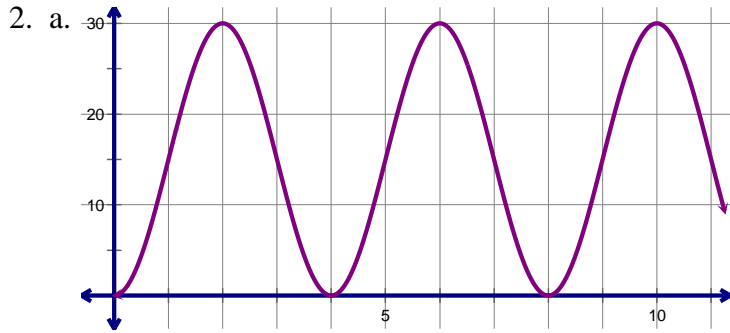


## Sinusoidal Modeling – Answers

1. a.  $35^{\circ}\text{F}$ ,  $55^{\circ}\text{F}$   
b. 10am  
c. 24 hours

d.  $f(x) = 10\sin\left(\frac{\pi}{12}(x-10)\right) + 45$



- b. 30cm  
c. 2 seconds  
d. 4 seconds  
e. 10 seconds