

sampling rate: 4 frequency (0.57143 samples per hour)  
signal period: 7 hours, frequency: 0.14286 cycles per hour  
number of samples: 49, 12 periods  
df: 0.01166,  $\Delta f$ : 0.55977 cycles per hour  
dt: 1.75000,  $\Delta t$ : 84.00000 hours  
 $df = 1/\Delta t$ ,  $\Delta f = (n-1)df = 1/dt$   
offset: 0 m, amplitude: 2 m, initial phase: 0.0 °, noise: 0.0

