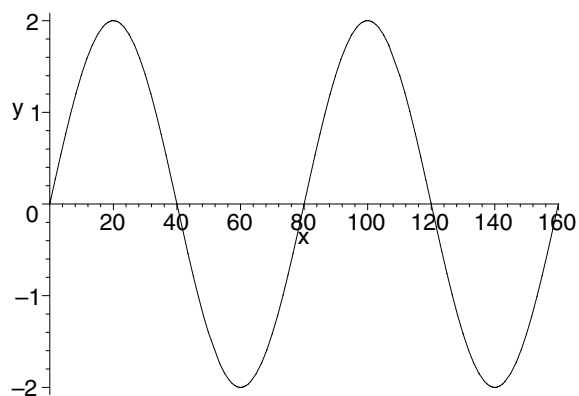
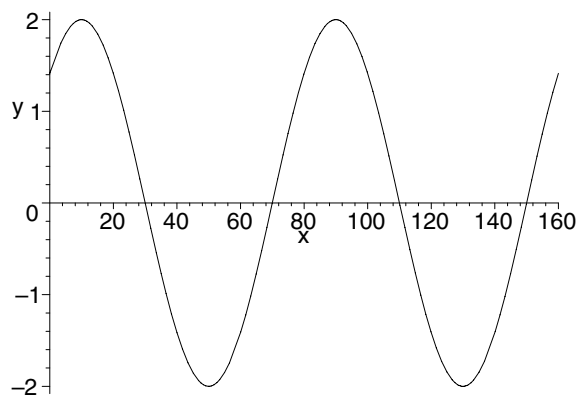


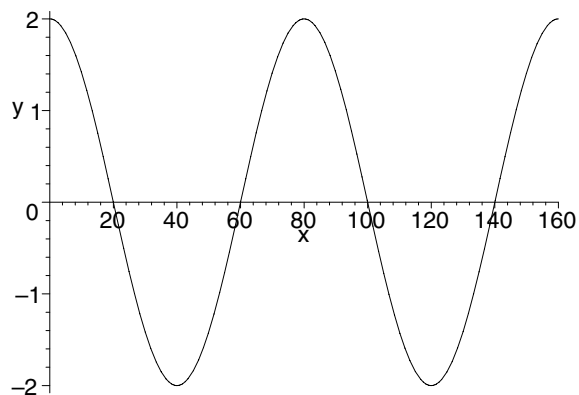
57. (a) Centimeters are to be understood as the length unit and seconds as the time unit. Making sure our (graphing) calculator is in radians mode, we find



- (b) The previous graph is at $t = 0$, and this next one is at $t = 0.050$ s.



And the final one, shown below, is at $t = 0.010$ s.



- (c) These graphs (as well as the discussion in the textbook) make it clear that the wave is traveling in the $-x$ direction.