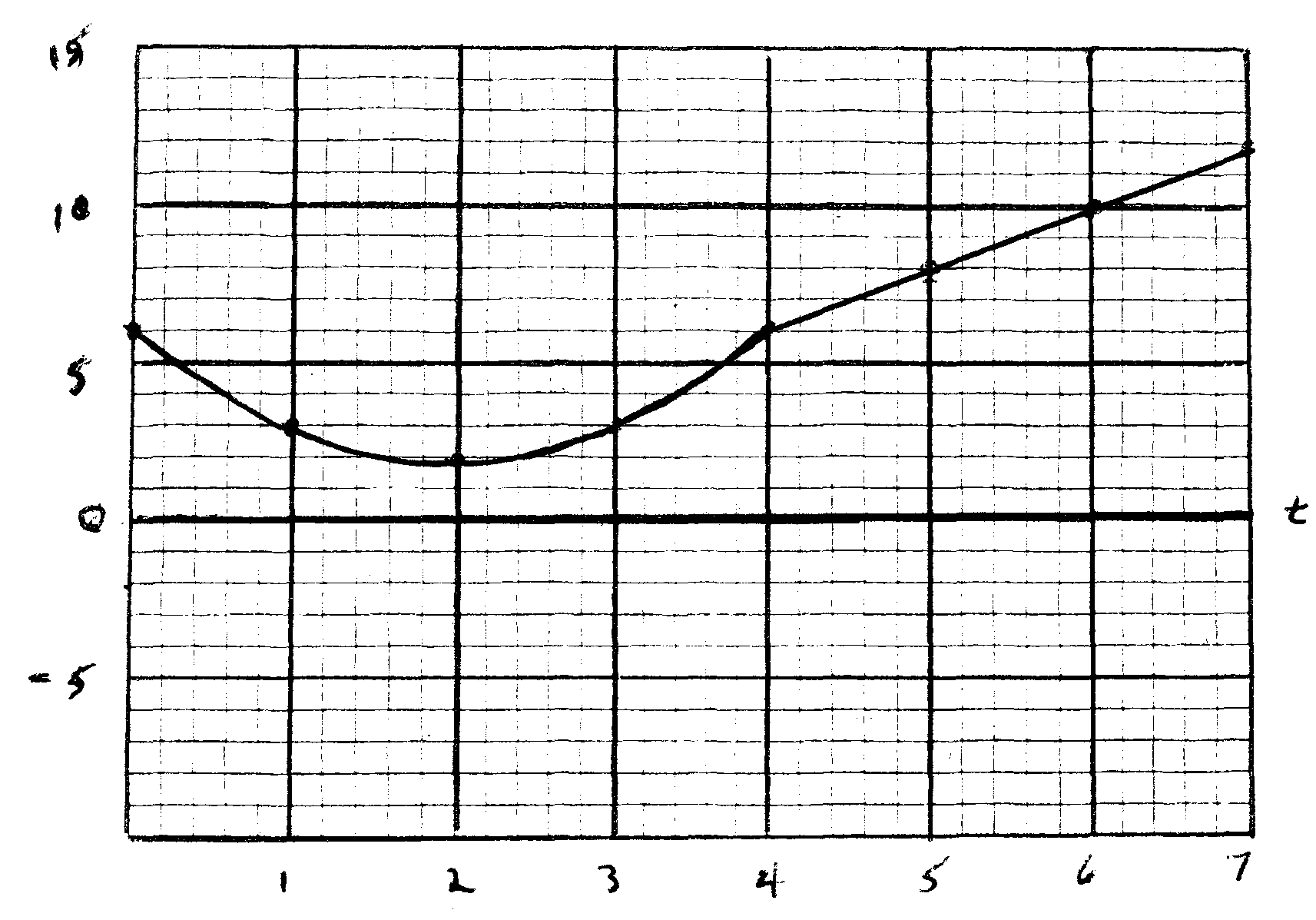
Velocity Graph Physics C



An object moves along a one dimensional track as shown in the graph above.

For the first 4 seconds (t = 0 – 4) the velocity is given by the function y = x2 – 4x + 6.

From t = 4 to t = 7, the velocity function is given by the equation y = 2x – 1.

Determine the displacement of the object during each of the listed intervals as well as for the 7 seconds depicted on the graph.