

Chapter4_example9

The time increment is 0.709 hr

The temperature at different points after 1 time interval are:

110.

20.

20.

20.

20.

20.

The temperature at different points after 2 time interval are:

110.

65.

20.

20.

20.

20.

The temperature at different points after 3 time interval are:

110.

65.

42.5

20.

20.

20.

The temperature at different points after 4 time interval are:

110.

76.25

42.5

31.25

20.

20.

The temperature at different points after 5 time interval are:

110.

76.25

53.75

31.25

25.625

20.

The temperature at different points after 6 time interval are:

112.8125

81.875

53.75

39.6875

25.625

25.625

The temperature at different points after 7 time interval are:

112.8125

83.28125

60.78125

39.6875

32.65625

25.625

The required time is 4.96 hr