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QUESTION 1:

SOLUTION: T1 of thermometer = 100c

 T2 of thermometer = 200c

 Time taken = 5minutes = 300secs

 T = 20-10 = 100c

 Find T = 2490c Tc = 249-10 = 1490c

100c to 300secs

1490c to x

10x to 300x14.9

10x = 4470

X = 447

X = 447secs

X = 7minutes 27seconds