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**Calculus Worksheet: Rate of Change (2)**

A block of ice start melting at  $t = 0$  where  $t$  is the time. The rate at which its mass  $M$  decreases is proportional to the cube root of the mass. If the initial (at  $t = 0$ ) mass  $M$  is equal to 5 Kilograms and it is equal to 3 Kilograms at  $t = 1$  hour, find  $t$  so that  $M = 0$ .

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