Quiz 7.5 – Differential Equations

1. (1 pt) alfredLibrary/AUCI/chapter7/lesson5/quiz/question5pet.pg

Find y as a function of t if $10000y'' - 729y = 0$, $y(0) = 1$, and $y'(0) = 2$.

$y(t) =$ _____

(HINT: First solve $10000y'' - 729y = 0$ for y''.)

2. (1 pt) alfredLibrary/AUCI/chapter7/lesson5/quiz/DE2pet.pg

Find y as a function of t given that $1600y'' + 729y = 0$, $y(0) = 8$, and $y'(0) = 7$.

$y(t) =$ _____

(HINT: First solve $1600y'' + 729y = 0$ for y''.)