

Full name: \_\_\_\_\_ Section: \_\_\_\_\_

2. A student in Math 32 may be tasked with completing a written homework assignment and a computer programming assignment in a week-long time frame. The units for times are in hours.<sup>1</sup> Let

- $T_W \sim U(2, 4)$  be the amount of time for a student to complete a written homework assignment, and
- $T_C \sim N\left(\mu = \frac{1}{2}, \sigma^2 = \frac{1}{16}\right)$  be the amount of time for a student to complete a computer programming assignment

Describe the distribution of time to complete both homework tasks by computing the mean and standard deviation of the sum  $T_W + T_C$  assuming independence between  $T_W$  and  $T_C$ .

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<sup>1</sup>Hint: there is only one input variable, time, so there is no need for double integrals.