# Mathematics 1120 H - Calculus II: Integrals and Series <br> Trent University, Winter 2020 <br> <br> Quizzes 

 <br> <br> Quizzes}

Quiz \#1. Thursday, 16 January [15 minutes]
Compute each of the following integrals.

1. $\int x^{2} \ln (x) d x \quad[2.5]$
2. $\int_{0}^{1} \frac{1}{(1+x) \sqrt{x}} d x$

Quiz \#2. Thursday, 23 January [15 minutes]

1. Evaluate $\int_{0}^{1} \frac{x}{\sqrt{9 x^{2}+16}} d x$. [5]

Quiz \#3. Thursday, 30 January [20 minutes]
Compute one (1) of the following integrals.

1. $\int \frac{x+1}{\sqrt{4 x^{2}-8 x}} d x[5] \quad$ 2. $\int \frac{2 x^{2}+3}{(x+1)\left(x^{2}+4\right)} d x[5]$

Quiz \#4. Thursday, 6 February [20 minutes]

1. Evaluate $\int_{0}^{\infty} \frac{1}{(x+1)^{2}(x+2)} d x$. [5]

Quiz \#5. Thursday, 13 February [10 minutes]

1. Find the arc-length of the curve $y=\frac{2}{3} x^{3 / 2}$, where $0 \leq x \leq 3$. [5]
