January 18, 2019

To receive full credit you must show work.

1. [**3 points**] (Turn in signed Recognition of Policies and Dates Form)

2. [**3 points**] **Review:** Evaluate the following:

   (a) $\dfrac{d}{dt}\left[t^5 + \dfrac{1}{1-t} + 2t\cos(3t) + \pi\right]$

   (b) $\displaystyle\int\left[x^5 + \dfrac{3}{x} + 2\cos(x) + \pi\right]\,dx$

3. [**4 points**] Evaluate $\displaystyle\int 2e^{\sqrt{t}}\,dt$

Total: $\boxed{\underline{\quad}\ /10}$