Mini-math Div 3/4: Monday, March 1, 2021 (12 minutes)

1. Evaluate the following definite integrals.

(a) (2 points) $\displaystyle\int_1^9 \frac{\sqrt{t}+1}{t}\,dt$

(b) (2 points) $\displaystyle\int_0^{\pi/6} (\cos\theta - \sec^2\theta)\,d\theta$

(c) (2 points) $\displaystyle\int_{-\pi/6}^{\pi/6} \sin 2x\,dx$