

**Instructions.** Show all work, with clear logical steps. No work or hard-to-follow work will lose points. **Give an exact answer unless otherwise noted.**

**Problem 1.** (4 points) Evaluate

$$\int_2^7 \frac{1}{1-t} dt.$$

**Problem 2.** (5 points) It is estimated that  $t$  weeks from now the average price of a gallon of gas will be increasing at a rate of

$$p'(t) = \frac{t}{t^2 + 19}.$$

If the average price of a gallon of gas is \$2.13, what will the average price of a gallon of gas be 9 weeks from now? Give your answer to the nearest cent.

**Problem 3.** (1 point) What is the name of your instructor for MA 16020.