

Name: \_\_\_\_\_

Mark: \_\_\_\_\_

**Mini-math AP Calculus BC: Friday, March 25, 2022 (8 minutes)**

1. (2 points) Write down (but do not evaluate) an integral which represents the area inside  $r = 2 - \cos \theta$  for  $0 \leq \theta \leq \pi$ .
2. (2 points) Write down (but do not evaluate) an integral which represents the area inside  $r_1 = 2 \sin \theta$  and outside  $r_2 = 2\sqrt{3} - 2 \sin \theta$ .
3. (2 points) Write down (but do not evaluate) an integral which represents the area outside  $r_1 = 2 \sin \theta$  and inside  $r_2 = 2\sqrt{3} - 2 \sin \theta$ .