

Math 101-27-Term141-Quiz.3

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

ID: \_\_\_\_\_ Serial#: \_\_\_\_\_

Q 1. Find  $f'(x)$  if  $f(x) = \sqrt{5x+9}$ .

Q 2. Given  $f(x) = \frac{x^2+7}{3x-1}$  find  $f'(2)$ .

Q 3. A position of a particle at time  $t$  is given by

$s(t) = \frac{1}{1+t}$  m/s. Find the velocity and the speed after 2 seconds.

Q 4. If  $y = \tan(\sin x + \cos x)$  find  $y'$ .

**SOLUTIONS** \_\_\_\_\_

Q1.

Q2.

Q3.