

Name _____ Date _____

Math 2 — Quiz 6

1. Decompose the following rational function using partial fraction decomposition

$$\frac{-6x - 17}{x^2 - 4x + 4}$$

2. Determine whether the improper integral is divergent or convergent. If convergent, compute its value.

$$\int_1^{\infty} \frac{1}{(2x+1)^3} dx.$$