

Calculus 1B Quiz 7

Name:

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Student ID:

1. (1 point) Find the solution to the differential equation:

$$y' = \frac{y}{x^2}, \quad y(1) = 5$$

(turn over)

2. (2 points) Find a solution y to the differential equation

$$y' = \frac{x + y}{x - y}$$

when x is positive. You do not need to express y explicitly.

(Hint: try substituting $v = y/x$).