Math 32 Warm-up Quiz

GSI: Theo Johnson-Freyd
http://math.berkeley.edu/~theojf/08Fall32/

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Name: _____ Score: _____ /10

You have twenty minutes to complete this quiz. You may not use calculators or notes, but the chalkboards are yours.

1. (2 pts) Simplify $|x - 5| + |x - 9|$, where x is some number such that $5 < x < 9$.

2. (3 pts) Solve the equation for x:

$$\frac{2}{x-3} - \frac{1}{x+3} = \frac{10}{x^2 - 9}$$

3. Let $P = (2, 3)$ and $Q = (10, 9)$.

    (a) (1 pt) Find the distance between P and Q.

    (b) (1 pt) Find the midpoint of the line-segment joining P and Q.

    (c) (1 pt) Find the slope of the line joining P and Q.

    (d) (2 pts) Write an equation for the line joining P and Q.