

# Math 2143 - Brief Calculus with Applications

Homework #1 - 2008.01.15

Due Date - 2008.01.24

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

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Find the domains of the following functions.

1.

$$f(x) = \frac{2x}{x^2 - x - 6}$$

2.

$$g(w) = \frac{2w + 1}{\sqrt{w^2 + 1}}$$

3.

$$s(v) = \sqrt{2v^2 - 5}$$

4.

$$t(y) = \frac{1}{\sqrt{2y^2 - 5}}$$

5.

$$r(x) = \frac{2x}{x^2 - x - 6} + \frac{\sqrt{x}}{x^2 + x - 6}$$