

Solving Inequalities ALGEBRAICALLY

Name: _____ Pd. _____ Date: _____

For what values of x , is $f(x) > g(x)$? Be sure to write your answer in SET NOTATION.

1)

$$f(x) = -\frac{5}{3}x + 3$$

$$g(x) = \frac{1}{3}x - 3$$

1)

$$f(x) = 4x + 3$$

$$g(x) = -x - 2$$

1)

$$f(x) = -\frac{1}{2}x - 1$$

$$g(x) = \frac{1}{4}x - 4$$

1)

$$f(x) = -1$$

$$g(x) = -\frac{5}{2}x + 4$$

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1)

$$f(x) = 3x - 4$$
$$g(x) = -\frac{1}{2}x + 3$$

1)

$$f(x) = -2x + 2$$
$$g(x) = -2x - 2$$

1)

$$f(x) = -\frac{1}{2}x - 2$$
$$g(x) = -\frac{3}{2}x + 2$$

1)

$$f(x) = \frac{1}{3}x - 3$$
$$y = -x + 1$$