



Name: _____

Date: _____

Score: _____

Direction: Find the inverse of each rational function. State the domain and range. Show all your work in the space provided.

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

2) $f(x) = \frac{-3x-1}{x+5}, x \neq -5$

3) $f(x) = \frac{x+7}{x}, x \neq 0$



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

$$f^{-1}(x) = \frac{x-1}{x-2}; \text{ Domain: } x \neq 2, \text{ Range: } y \neq 1$$

2) $f(x) = \frac{-3x-1}{x+5}, x \neq -5$

$$f^{-1}(x) = \frac{-5x-1}{x+3}; \text{ Domain: } x \neq -3, \text{ Range: } y \neq -5$$

3) $f(x) = \frac{x+7}{x}, x \neq 0$

$$f^{-1}(x) = \frac{7}{x-1}; \text{ Domain: } x \neq 1, \text{ Range: } y \neq 0$$