## Pre-Calculus: 2.7 – 2.8 Rational Functions and Solving Inequalities in One Variable

Be sure to SHOW ALL WORK. Answer questions completely. Be sure to write answers in spaces provided. If work or

Name:

Date: \_\_\_\_\_\_ Hour:

SCORE: \_\_\_\_\_/80

Percent Correct: \_\_\_\_%

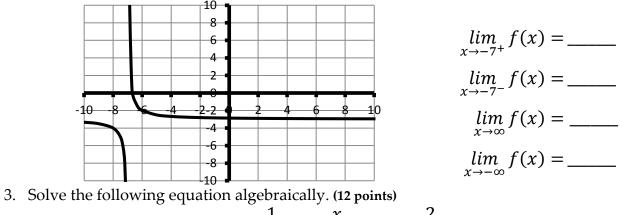
Be sure to SHOW ALL WORK. Answer	16/8/4	Correct, complete, with appropriate work or explanations.
questions completely. Be sure to write	12/6/3	Correct strategy, minor errors, appropriate work or explanations.
answers in spaces provided. If work or	8/4/2	Starts with appropriate strategy, some understanding, some errors.
answers are in another location, please make	4/2/1	Attempted appropriate strategy, minimal understanding.
note of that. There are <b>80</b> points possible.	0	Little or no understanding evident – OR – no work shown.

1. Describe how the graphs of the given function can be obtained by transforming the graph of the rational function  $f(x) = \frac{1}{x}$ . (8 points)

$$f(x) = \frac{-8x+3}{x-2}$$

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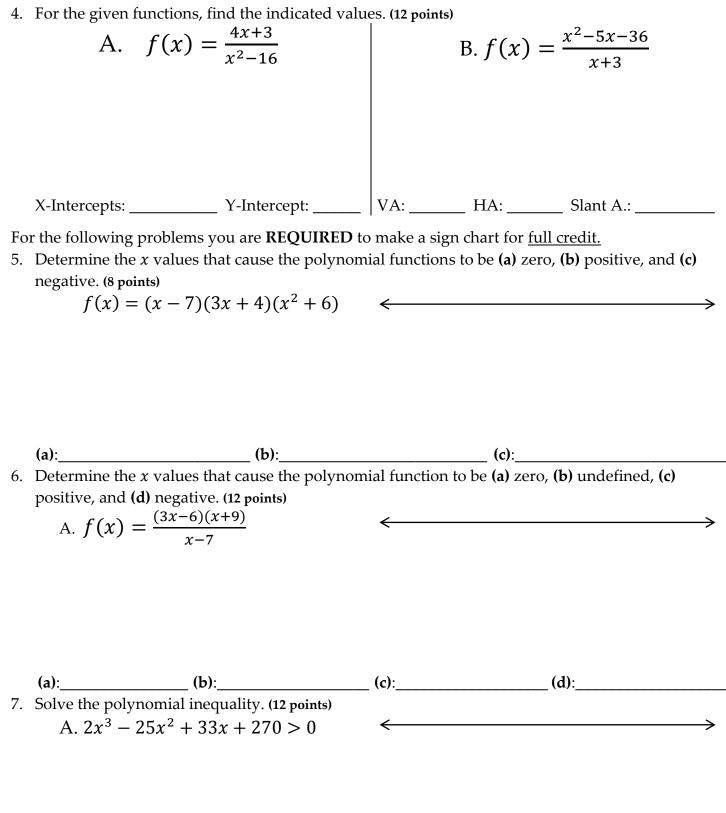
2. Evaluate the limit based on the graph f(x) shown. (8 points)



$$\frac{1}{x-4} + \frac{x}{x-2} = \frac{2}{x^2 - 6x + 8}$$

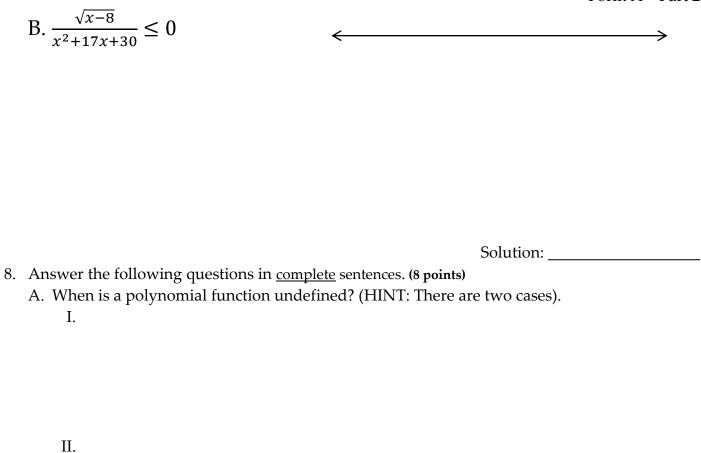
Solution: Pre-Calculus: Rational Functions and Solving Inequalities in One Variable

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Solution: \_\_\_\_\_\_ Pre-Calculus: Rational Functions and Solving Inequalities in One Variable Pa

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B. How do we find horizontal asymptotes? (Give an example of each!)