

NO CALCULATOR

PreCalculus ∞ Briody
Quiz §1.3 Domain and Range

Name: _____

8/26/2012

Question:	1	2	3	Total
Points:	2	4	3	9
Score:				

Please produce **neat** and **organized** solutions. Be sure to box your answers when appropriate. Messy or unsupported answers will receive no credit. If you would like scratch paper please ask. Good luck.

- (2 points) Find the domain of $f(x) = \frac{1}{x-2}$.
- (4 points) Find the domain and range of $g(x) = \sqrt{3-x} + 2$.
- (3 points) Find the domain of $h(x) = \frac{1}{x-4} + \sqrt{x}$.

ANSWER KEY

Form A

1. $(-\infty, 2)(2, \infty)$
2. Domain: $(-\infty, 3)$ Range: $[2, \infty]$
3. $[0, 4) \cup (4, \infty)$

Form B

1. $(-\infty, 4)(4, \infty)$
2. Domain: $(-\infty, 5)$ Range: $[4, \infty]$
3. $[0, 6) \cup (6, \infty)$

Form C

1. $(-\infty, 6)(6, \infty)$
2. Domain: $(-\infty, 7)$ Range: $[6, \infty]$
3. $[0, 8) \cup (8, \infty)$