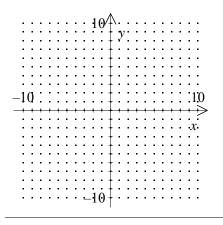
NAME:

- 1. (a) State the domain of $f(x) = \sqrt{x-5}$.
 - (b) Graph the function and state the range.



- 2. What is the domain of the function $y = \sqrt{x}$?
 - [A] $x \ge 1$
- [B] $x \le 1$
- [C] $x \neq 0$
- [D] $x \ge 0$
- [E] $x \le 0$

[2]

- 3. What is the range of the function $y = -2x^2 + x$ when the domain is $\{1, 3, 5\}$?
- [A] $\{1, 15, 45\}$ [B] $\{-1, -15, -45\}$ [C] $\{-3, -9, -5\}$ [D] $\{5, 21, 55\}$ [E] $\{3, 9, 5\}$

[1]

[3]

4. Use a calculator to find the range of the function $y = \frac{8(x-5)}{3}$ when the domain is $\{-2.2, 1.7, 8.3\}$.

[4]

5. Compare the quantities in Column A and Column B.

Column A

Column B

the greatest number in the range

the least number in the range

of the function $y = x^2 + 2$ for the

of the function $y = 2x^2$ for the

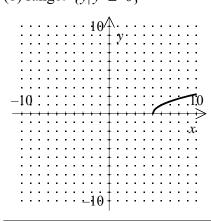
domain {1, 2, 3}

domain $\{-6, -5, -4\}$

- [A] The quantity in Column A is greater.
- [B] The quantity in Column B is greater.
- [C] The quantities are equal.
- [D] The relationship cannot be determined from the information given.

[5]

- (a) domain: $\{x | x \ge 5\}$
- (b) range: $\{y | y \ge 0\}$



- [1] ____
- [2] D
- [3] B
- [4] $\{-19.2, -8.8, 8.8\}$
- [5] B