

1. Use the following function to answer the questions that follow: $f(x) = -x^2 + 4x - 3$

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| a) Find $f(2)$ | b) Find $f(-3)$ |
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2. Look at the graph to answer the questions that follow.

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| <p>a) What is the minimum value x can be?</p> <p>b) What is the maximum value x can be?</p> <p>c) What is the minimum value y can be?</p> <p>d) What is the maximum value y can be?</p> | |
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3. Use the following equation to answer the questions.

$$y = \frac{x}{x + 5}$$

- a) Are there any values of x that would make this equation undefined?
- b) Name 5 values of x that you can plug into this equation so that y is not undefined.