## Taking a Closer Look!

Name

Directions: Give answers in interval notation when possible. If a concept does not apply, write "none".



- 1. Is it a function?
- 2. Domain:
- 3. Range:
- 4. *x*-intercept(s):
- 5. y-intercept(s):
- 6. Symmetry:
- 7. Where is the graph increasing?
- 8. Where is the graph decreasing?
- 9. Where is y < 0?
- 10. Where is y > 0?
- 11. Where is y = 0?
- 12. Find y when x = 7.
- 13. For what *x*-value(s) is y = 4?



- 14. Absolute maximum value of graph:
- 15. Absolute minimum value of graph:
- 16. Relative maxima:
- 17. Relative minima:
- 18 Asymptote(s): (state equation(s))
- 19. Assuming y = f(x): as  $x \to +\infty$ ,  $f(x) \to$ \_\_\_\_\_ as  $x \to -\infty$ ,  $f(x) \to$ \_\_\_\_\_
- 20. Name given to this graph:

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