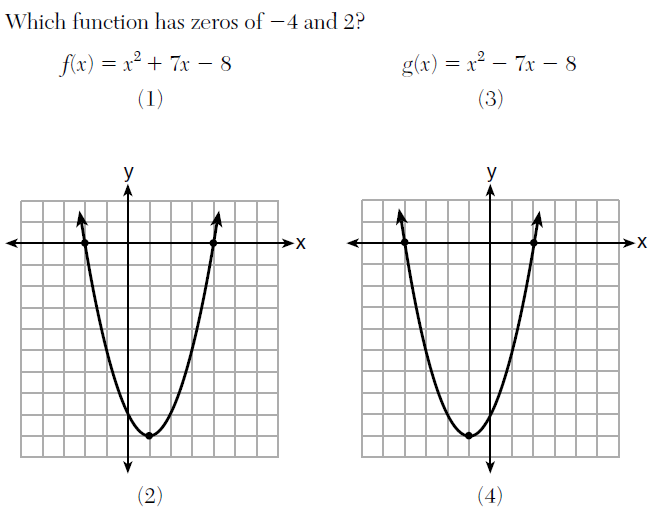
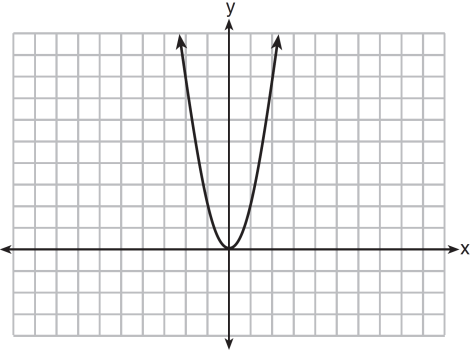
**Name: Period: Job 33: Lesson 9.1 Solving Quad Graphing**

**Part 1: Lesson 9-1 Textbook**

Page 360: 5, 6, 7, 8, 9, 10, 18, 19

**Part 2: Algebra Regents Questions – **



1. Solve the inequality below:
2. What is the domain of the relation shown below?
3. (3)
4. (4)
5. Jakob is working on his math homework. He decided that the sum of the expression must be rational because it is a fraction. Is Jakob correct? Explain your reasoning.
6. The graph of the equation is shown.

If *a* is multiplied by , the graph of the new equation is

|  |  |
| --- | --- |
| 1) | wider and opens downward |
| 2) | wider and opens upward |
| 3) | narrower and opens downward |
| 4) | narrower and opens upward |

1. Determine and state whether the sequence displays exponential behavior. Explain how you arrived at your decision.

7. How many real solutions does the equation have? Justify your answer.

8.Given the function , rewrite in vertex form

9. Subtract from . Express the result as a trinomial.