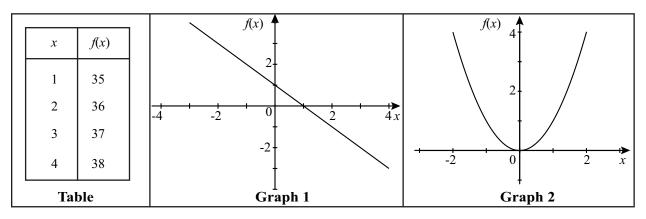
## Linear, Quadratic and Exponential Worksheet 1



- 1. Find the formula of f(x) given in the above table
- 2. Find the x-intercept of the above func-
- 3. Which function grows faster  $y = x^3$  or  $y = 3^x$ .

tion.

- 4. What is the equation for the Graph 1?
- 5. What is the equation for the Graph 2?
- 6. With every minute that your sister runs, her heart rate (per minute) starts at 50, then becomes 60, then 70, then 80, and then 90. Find a function that

- models this?
- 7. During your first year you baked 2,000 cookies and the next year, you made 3,000. The next year was 4,000. What function could model this success (assuming that x = 0 your first year)?
- 8. What kind of sequence is 2, 3, 4, 5, 6, 7...?
- 9. What kind of sequence is 10, 20, 40, 80...?
- 10. How is an exponential function different from a linear function?

©2012 Shmoop University, Inc. All rights reserved. For classroom use only. Want to print this out for your classroom? Go for it. All other reproduction and distribution is prohibited.