

Section 5.1–Inverse Functions

We begin with a general rule, a definition, and a test.

11. Blobs and Arrows, revisited

12. Inverse Relations, intuitive idea

13. Definition One-to-one functions.

14. Horizontal Line Test

15. Definition Inverse Functions.

16. One-to-One and Invertibility

17. Example Justify that $f(x) = 2x + 5$ is one-to-one and find its inverse function.

18. Example Justify that $f(x) = \sqrt{x+5}$ is one-to-one and find its inverse function.

19. Example Justify that $f(x) = \frac{2x}{x-1}$ is one-to-one and find its inverse function.