

4. Check for necessary domain restrictions.

example, $f(x) = x^2$, $x \ge 0$ is now a one-to-one function.

$$1 f(x) = 5x + 7 \qquad 2 f(x) = x^2 - 6x + 13 \text{ when } x \le 3. \qquad 3. f(x) = \frac{4x + 3}{3x - 1}$$

4.	х	$f(x) = x^3 - 4x + 1$
	-7	-314
	-6	-191
	-5	-104
	-4	-47
	-3	-14
	-2	1
	-1	4



6. Find a domain that will make this function invertible. $f(x) = x^2 - 4x - 1$

PRACTICE 5-1

[SHOW YOUR WORK] [WRITE ALL ANSWERS IN SIMPLIFIED FORM]

Find the inverse of each function.

1. f(x) = -6x + 82. f(x) = 3x - 53. $f(x) = x^2 - 4x - 12, x \ge 2$ 4. $f(x) = \sqrt{x+4}$ 5. $f(x) = \frac{3x+5}{x-1}$ 6. $f(x) = \frac{7x-6}{3x+2}$ 7. $f(x) = \frac{1}{2}x^3 - 3$ 8. $f(x) = (x-2)^3 + 5$ 9. $f(x) = -2\sqrt[3]{x-5} + 7$ 10. a. f(x)х -2 0.5 -1 1.5 0 4.5 1 13.5 2 40.5



f(x)

1

3

4

5





b.

х

5

б

9

14



For each function find a domain that will make the function invertible.

12. $f(x) = 2x^2 - 3$

11. a.

- 13. $f(x) = (x+5)^2 + 4$
- 14. $f(x) = x^2 + 12x + 32$