

WORKSHEET Domain and Range

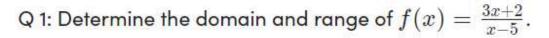
Unsolved with Answer key

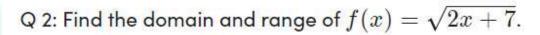


WORKSHEET

Simplifying Fractions

Problem: Simplify the following fractions. Write your answers in the simplest form.





Q 3: Identify the domain and range of
$$f(x)=rac{1}{x^2-4}$$
 .

Q 4: Determine the domain and range of
$$f(x)=x^2-4x+7$$
.

Q 5: Find the domain and range of
$$f(x) = \sqrt{9-x^2}$$
.

Q 6: Identify the domain and range of
$$f(x) = \ln(3x-1)$$
.

Q 7: Determine the domain and range of
$$f(x)=e^x$$
.

Q 8: Find the domain and range of
$$f(x)=rac{2}{x^2+4}$$
.

Q 9: Identify the domain and range of
$$f(x) = |x - 3|$$
.

Q 10: Determine the domain and range of
$$f(x)=rac{1}{\sqrt{x+4}}$$
 .

Answer Key

Domain and Range

1:
$$x = 5$$
, $y = 3$

2:
$$x$$
 greater than = to -7/2, y = greater than = to 0

3:
$$x = 2$$
 and -2 , y is not = to 0

5:
$$x = -3 \le x \le 3$$
, $y = 0 \le y \le 3$

8:
$$x = All Real numbers$$
, $y = 0 < y \le 21$

9:
$$x = All real numbers, y \ge 0$$