

Math122 Worksheet

1) Find all real solutions of $\frac{1}{x-1} - \frac{2}{x^2} = 0$

2) Solve the inequality $|x + 1| \geq 3$ and express your solution using interval notation.

3) Sketch the region given by $\{(x, y) \mid |x| \leq 2 \text{ and } |y| \leq 3\}$

4) Consider the equation of a circle $(x + 3)^2 + (y - 4)^2 = 25$

a) Find the center

b) Find the radius

c) Find the x-intercepts

d) Find the y-intercepts

e) Sketch the graph