1. Find the intercepts of the graph of the equation

Y=x2-4

X2-9

The intercepts are\_\_\_\_\_\_(type ordered pair,using intergers or fractions)

1. Analyze the graph of the function

R(x) =x+9

x(x+18)

1. What is the domain of R(x)?
2. What is the equation of the vertical asymptotes of R(x)? X=\_\_\_\_\_ (type integer or fraction)
3. Y=\_\_\_\_
4. X=\_\_\_\_\_\_
5. Solve the following inequality 5(x2-1) >-24x

The solution set is \_\_\_\_\_\_(type answer in interval notation)Use intergers or fractions for any numbers in the expression.

1. Find the zero for the following polynomial function and give the multipilicty for each zero. For each zero, state whether the graph crosses the x-axis or touches the x-axis and turns around.

F(x)=3(x+5)(x+8)2

1. What is the value of the zero with the smaller multiplicity? \_\_\_\_\_\_\_
2. Determine without graphing whether the given quadratic function has a maximum value or a minimum value and then find the value.

f(x)=-4x2-16x

The value is \_\_\_\_