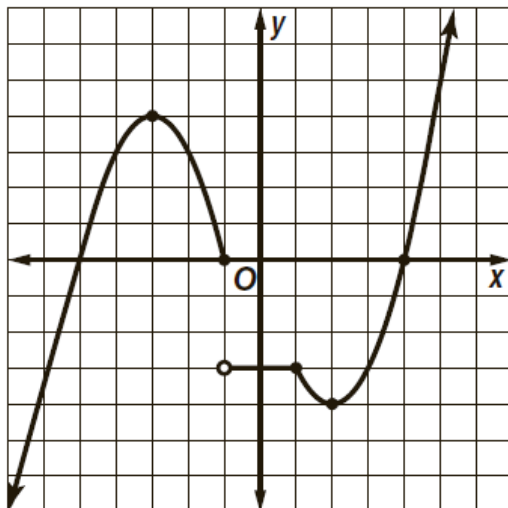Use the graph of $f(x)$ to complete the graphic organizer.

Domain:

Range:

y – intercept(s):

zeros:

Intervals on which $f(x)$ is:

Increasing   Decreasing   Constant:

End Behavior

[Determine whether $f(x)$ has each of the following characteristics, and find them if applicable.]

Continuity

Continuous

Infinite Discontinuity

Jump Discontinuity

Removable Discontinuity

Extrema

Relative maximum   Absolute maximum

Relative minimum   Absolute minimum

Use the graph of $f(x)$ to complete the graphic organizer.

$$f(x) = x^5 - 2x^2 + 8$$

Domain:

Range:

y – intercept(s):

zeros:

Intervals on which $f(x)$ is:

Increasing   Decreasing   Constant:

End Behavior

[Determine whether $f(x)$ has each of the following characteristics, and find them if applicable.]

Continuity

Continuous

Infinite Discontinuity

Jump Discontinuity

Removable Discontinuity

Extrema

Relative maximum   Absolute maximum

Relative minimum   Absolute minimum