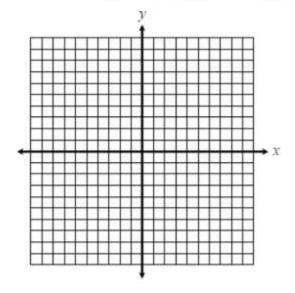
Sketching Polynomial Functions Practice

Together:

$$x^3 + 2x^2 - 8x$$



Domain:

Range: _____

Rel. Maximums):

Rel. Minimum(s): _____

End Behavior: As $x \to \infty$. $f(x) \to$

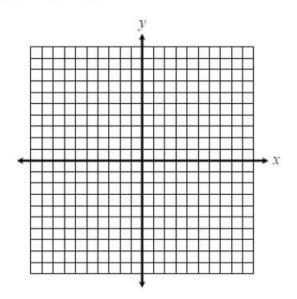
As
$$x \to -\infty$$
, $f(x) \to$

Inc. Intervals: _____

Dec. Intervals: _____

Your Turn:

$$f(x) = 2x^3 - 4x^2 - x$$



Domain: _____

Range: _____

Rel. Maximums): _____

Rel. Minimum(s):

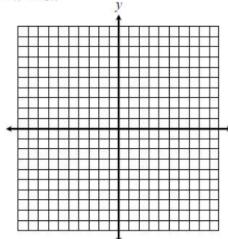
End Behavior: As $x \to \infty$, $f(x) \to$

As
$$x \to -\infty$$
, $f(x) \to$

Inc. Intervals:

Dec. Intervals: _____

 $f(x) = -x^3 + 3x^2$



Domain:

Range: ____

Rel. Maximum(s): _____

Rel. Minimum(s):

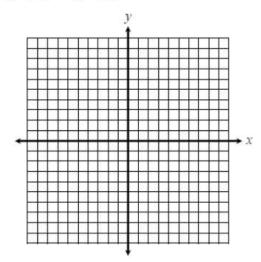
End Behavior: As $x \to \infty$, $f(x) \to$

As
$$x \to -\infty$$
, $f(x) \to$

Inc. Intervals: _____

Dec. Intervals: _____

$$f(x) = x^4 + x^3 - 4x^2 + 5$$



Range:

Rel. Maximum(s): _____

Rel. Minimum(s):

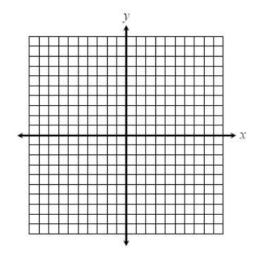
End Behavior: As $x \to \infty$, $f(x) \to$

As
$$x \to -\infty$$
, $f(x) \to$

Inc. Intervals:

Dec. Intervals: _____

$$f(x) = -x^4 + 4x^2 - 3x - 2$$



Range:

Rel. Maximum(s): _____

Rel. Minimum(s):

End Behavior: As $x \to \infty$, $f(x) \to$

As
$$x \to -\infty$$
, $f(x) \to$

Inc. Intervals: _____

Dec. Intervals: