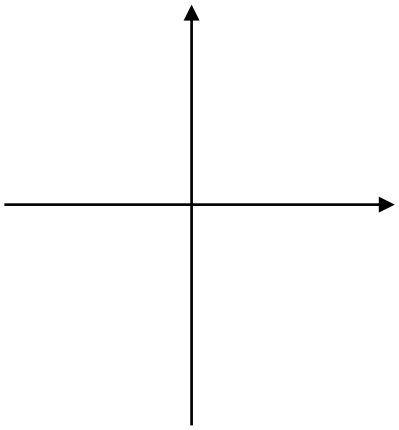
Common Graphs/Transformations

Graphs to Know for Calculus

Note: this is an incomplete list, you'll be learning others during this course



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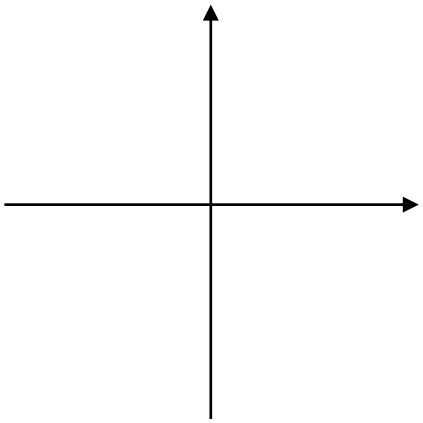

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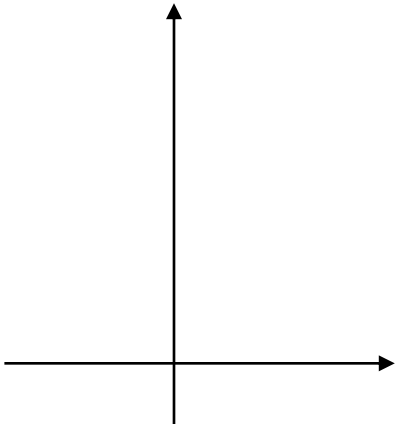

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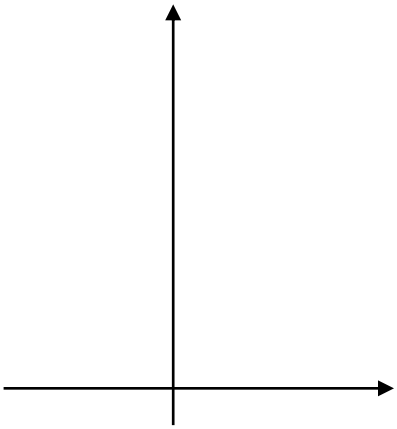

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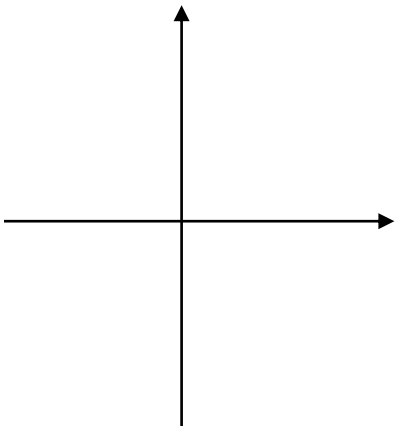

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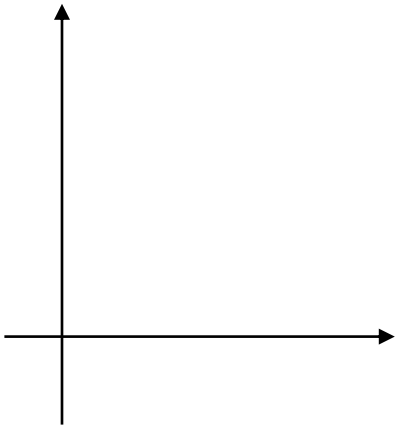

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Transformations to Know:

♦

♦

♦

given that the _____ or _____ graph is _____:

Vertical Shift

_____ graphs shifts _____ _____ units

in _____ direction as sign

examples:

Do: sketch _____ now sketch _____

Horizontal Shift

_____ graphs shifts _____ _____ units

in _____ direction of sign

examples:

sketch _____ sketch _____

Do: Utilize knowledge of _____ and _____ to sketch the following:

$y =$ $y =$ $y =$

Do: write the _____ and _____ of each in _____

Reflection about the *x*-axis

rule of thumb:

Reflection about the *y*-axis

rule of thumb:

notice how reflections affect _____

Do: Reflect _____ about the _____. State the resulting function.

Do: Reflect _____ about the _____. State the resulting function.

Vertical Shrink/Stretch

will cover this when we graph trigonometric functions