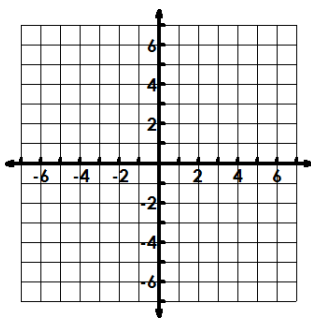


Sketch the graph and fill in the chart for each of the following. Describe the transformation beside the graph.

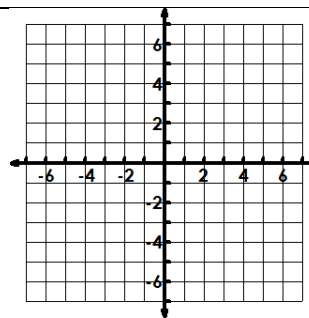
1. $f(x) = 2\sqrt{x-2} + 3$

| | |
|--|-------------|
| Starting Pt: | Inc or Dec: |
| Domain: | Range: |
| Abs. Max or Abs Min: | |
| End Behavior: $x \rightarrow \underline{\hspace{1cm}}, f(x) \rightarrow \underline{\hspace{1cm}}$ $x \rightarrow \underline{\hspace{1cm}}, f(x) \rightarrow \underline{\hspace{1cm}}$ | |



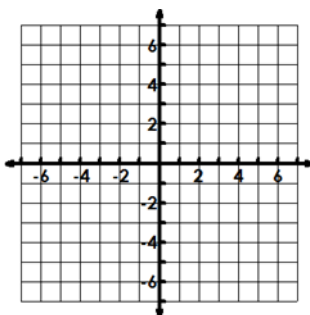
2. $f(x) = \sqrt{-1/2(x+1)} - 2$

| | |
|--|-------------|
| Starting Pt: | Inc or Dec: |
| Domain: | Range: |
| Abs. Max or Abs Min: | |
| End Behavior: $x \rightarrow \underline{\hspace{1cm}}, f(x) \rightarrow \underline{\hspace{1cm}}$ $x \rightarrow \underline{\hspace{1cm}}, f(x) \rightarrow \underline{\hspace{1cm}}$ | |



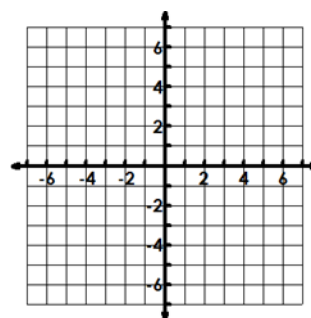
3. $f(x) = -\sqrt[3]{-(x-1)} + 2$

| | |
|--|-------------|
| Starting Pt: | Inc or Dec: |
| Domain: | Range: |
| Abs. Max or Abs Min: | |
| End Behavior: $x \rightarrow \underline{\hspace{1cm}}, f(x) \rightarrow \underline{\hspace{1cm}}$ $x \rightarrow \underline{\hspace{1cm}}, f(x) \rightarrow \underline{\hspace{1cm}}$ | |



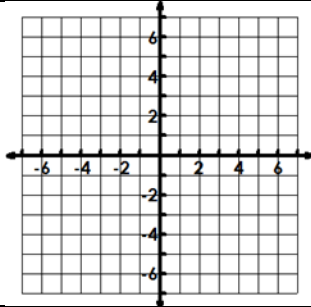
4. $f(x) = -1/4 \sqrt[3]{x+1} - 5$

| | |
|--|-------------|
| Starting Pt: | Inc or Dec: |
| Domain: | Range: |
| Abs. Max or Abs Min: | |
| End Behavior: $x \rightarrow \underline{\hspace{1cm}}, f(x) \rightarrow \underline{\hspace{1cm}}$ $x \rightarrow \underline{\hspace{1cm}}, f(x) \rightarrow \underline{\hspace{1cm}}$ | |



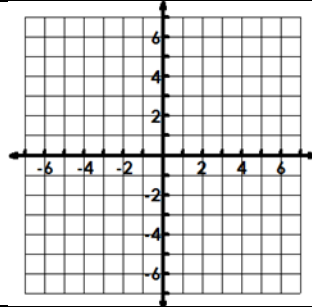
5. $f(x) = -\sqrt{-(x-1)} - 3$

| | |
|--|-------------|
| Starting Pt: | Inc or Dec: |
| Domain: | Range: |
| Abs. Max or Abs Min: | |
| End Behavior: $x \rightarrow \underline{\hspace{1cm}}, f(x) \rightarrow \underline{\hspace{1cm}}$ $x \rightarrow \underline{\hspace{1cm}}, f(x) \rightarrow \underline{\hspace{1cm}}$ | |



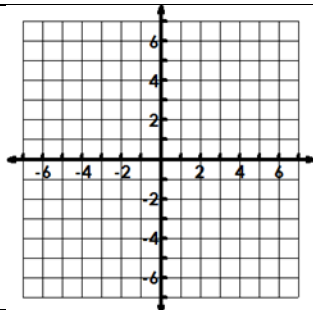
6. $f(x) = \sqrt{-3(x+2)} - 3$

| | |
|--|-------------|
| Starting Pt: | Inc or Dec: |
| Domain: | Range: |
| Abs. Max or Abs Min: | |
| End Behavior: $x \rightarrow \underline{\hspace{1cm}}, f(x) \rightarrow \underline{\hspace{1cm}}$ $x \rightarrow \underline{\hspace{1cm}}, f(x) \rightarrow \underline{\hspace{1cm}}$ | |



7. $f(x) = -4\sqrt[3]{x+2} + 4$

| | |
|--|-------------|
| Starting Pt: | Inc or Dec: |
| Domain: | Range: |
| Abs. Max or Abs Min: | |
| End Behavior: $x \rightarrow \underline{\hspace{1cm}}, f(x) \rightarrow \underline{\hspace{1cm}}$ $x \rightarrow \underline{\hspace{1cm}}, f(x) \rightarrow \underline{\hspace{1cm}}$ | |



8. $f(x) = \sqrt[3]{-1/2(x-2)} - 1$

| | |
|--|-------------|
| Starting Pt: | Inc or Dec: |
| Domain: | Range: |
| Abs. Max or Abs Min: | |
| End Behavior: $x \rightarrow \underline{\hspace{1cm}}, f(x) \rightarrow \underline{\hspace{1cm}}$ $x \rightarrow \underline{\hspace{1cm}}, f(x) \rightarrow \underline{\hspace{1cm}}$ | |

