$\qquad$
Corrective Assignment
DATE: $\qquad$

## Determine if $\boldsymbol{g}$ is the inverse of $\boldsymbol{f}$.

1. $f(x)=2 x-4$ and $g(x)=\frac{1}{2} x-2$
2. $f(x)=(x-3)^{3}+4$ and $g(x)=\sqrt[3]{x-4}+3$

Find the domain and range of $f$, sketch the graph of $\boldsymbol{f}^{-1}$, and find the domain and range of $\boldsymbol{f}^{-1}$. The graph of $y=x$ is provided.


Graph $f$ and verify that $f$ is one-to-one function. Find $f^{-1}$ and add the graph of $f^{-1}$ and the line $y=x$ to the graph $f$. State the domain and range of $\boldsymbol{f}$ and the domain and range of $\boldsymbol{f}^{-1}$.
7. $f(x)=\sqrt{x+2}-3$

| $\mathrm{D}:$ | $f$ | $\mathrm{D}:$ |
| :--- | :--- | :--- |
| $\mathrm{R}:$ |  | $f^{\boldsymbol{1}}$ |
|  |  | $\mathrm{R}:$ |



## ANSWERS TO 4.4 CORRECTIVE ASSIGNMENT



