$\qquad$

## Practice Assignment

Directions: Describe the transformations from the given function to the transformed function. Then name the yintercept and asymptote.

1. $f(x)=2^{x} \rightarrow f(x)=2^{x-2}$
2. $y=1 / 2(8)^{x} \rightarrow y=1 / 2(8)^{x}+6$

Transformations:
Transformations:

Y-intercept:
Y-intercept:
Asymptote:
Asymptote:
3. $y=4(0.6)^{x} \rightarrow y=4(0.6)^{x}-3$

Transformations:

Y-intercept:
Asymptote:
Y-intercept:
Asymptote:

Directions: Using the graphs of $f(x)$ and $g(x)$, described the transformations from $f(x)$ to $g(x)$. $F(x)$ is the solid line and $g(x)$ is the dotted line.
5.

6.

7.


Directions: Using the function $g(x)=4 x$, create a new function $h(x)$ given the following transformations:
8. down 3 units
9. right 8 units
10. up 4 units and left 2 units
11. left 5 units
12. up 2 units
13. down 1 unit and right 4 units

