









5. Describe the transformations:

4.

a) $f(x) = -\frac{1}{2}(2)^{x+2} + 5$ reflection, shrink by 2, <2, 15

Asymptote	y =
Domain	(<u>~</u> <u>8</u>)
y-intercept	(<u>D</u> , <u>2</u>)
Range	(
Increase/Decrease	(())
End Behavior	Left: As $x \rightarrow -\infty$, $y \rightarrow _$
	Right: As $x \rightarrow \infty$, $y \rightarrow \cancel{10}$

Asymptote	y =
Domain	(<u>-100</u> , <u>60</u>)
y-intercept	(0,3)
Range	(-00 -1.)
Increase/Decrease	(<u>~</u> b, <u>b</u>)
End Behavior	Left: As $x \rightarrow -\infty$, $y \rightarrow -$
	Right: As $x \rightarrow \infty$, $y \rightarrow \sum$

Asymptote	y = <u>-2</u>
Domain	(-00 60)
y-intercept	(<u>0</u> , <u>-1</u>)
Range	(-2 ba)
Increase/Decrease	(<u>-09</u> , <u>60</u>)
End Behavior	Left: As $x \rightarrow -\infty, y \rightarrow \bigcirc$
	Right: As $x \rightarrow \infty$, $y \rightarrow -2$

Asymptote	y = <u>5</u>
Domain	(-(00, 00)
y-intercept	(0, 4)
Range	(-00, 5)
Increase/Decrease	(-60 (0)
End Behavior	Left: As $x \rightarrow -\infty, y \rightarrow -\infty$
	Right: As $x \rightarrow \infty$, $y \rightarrow 5$

b) f(x) - ★ (***-8 stretch by 2, < 4, 18 Graphing Logarithmic Functions Notes ~ Graph and identify the characteristics for each Exponential Function.

