

ALG 2

Fcn Fams Unit Part II
Transformations Practice

Using "a"

Name:

Hour:

For 1-6: a) Give the equation of the parent fcn

b) Describe the transformation using the proper vocab.
Include vertical when needed and the numeric factor.

1. $f(x) = -\frac{2}{3}\left(\frac{1}{2}\right)^x$

2. $f(x) = 10x$

3. $f(x) = \frac{3}{2}\sqrt{x}$

4. $f(x) = -8x^2$

5. $f(x) = -\log x$

6. $f(x) = \frac{3}{4}|x|$

For 7-9, write the eqn based on the given info.

7. parent fcn: $f(x) = 2^x$ with a vertical reflection and a vertical stretch of 8

8. parent fcn: $f(x) = \sqrt[3]{x}$ with a vertical shrink of $\frac{1}{5}$

9. parent fcn: $f(x) = x^3$ where $a = -6$