

T/PC

Transforming Functions HW 1

Identify each parent function, then FULLY describe the transformations with the proper vocab

1. $y = \frac{1}{3} \left(\frac{1}{5} \right)^{-(x-9)} + 2$

2. $y = (x+7)^3 + 3$

3. $y = -|2x| - 3$

4. $y = \frac{1}{x-5} - 6$

5. $y = -\sqrt{x-8}$

6. $y = \frac{1}{5}(x-4)^2 + 1$

7. $y = \sqrt[3]{3(x+1)} + 7$

8. $y = (2)^{4(x+10)}$

9. $y = \frac{2}{11} \log x + 10$

10. $y = \frac{-2}{(x+7)^2} - 4$

Format to use

$y =$ _____ parent fcn

$a =$ _____ description

$b =$ _____ "

$h =$ _____ "

$k =$ _____ "

Eqns of New Asymptotes HA $y =$ _____
VA $x =$ _____