

Name \_\_\_\_\_ Block \_\_\_\_\_

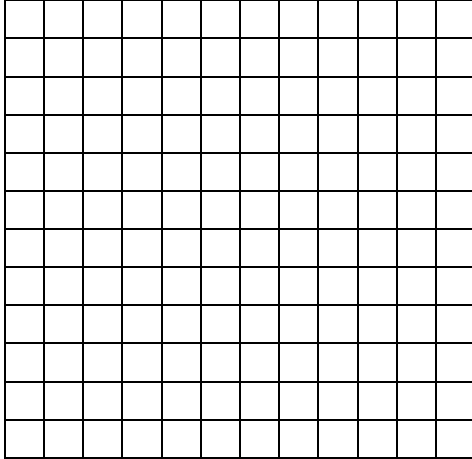
State and graph the basic function and any asymptotes.

Plot using transformations.

Rewrite the function if necessary.

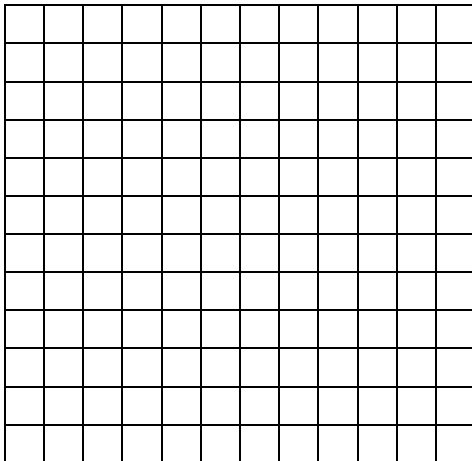
1)  $f(x) = 2 - x^3$

$f(x) = (x + 2)^3$

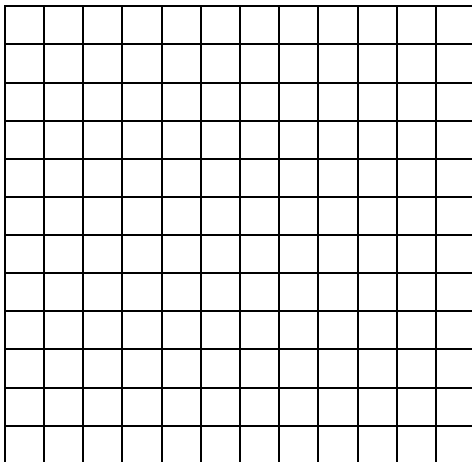


2)  $f(x) = \sqrt{3 - x}$

$f(x) = -2\sqrt{x} - 1$

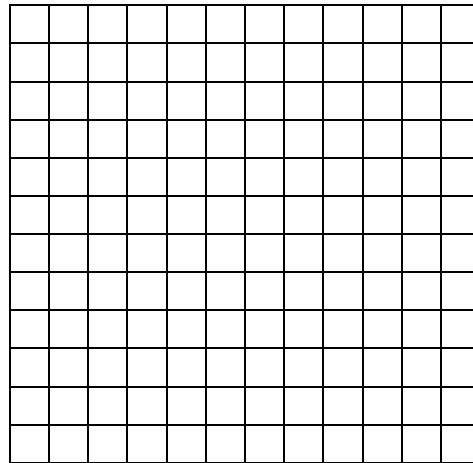


3)  $f(x) = \frac{1 - 3x}{x}$



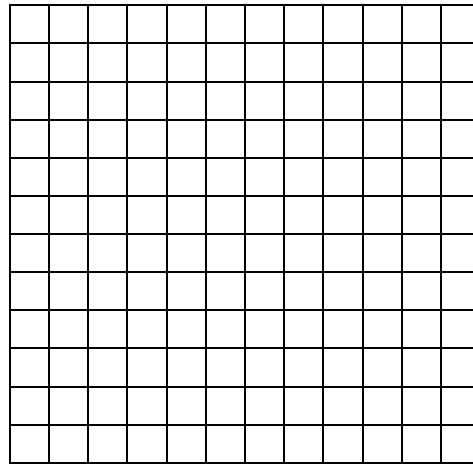
4)  $f(x) = -x^2 + 3$

$f(x) = \frac{1}{3}(x^2 - 6x)$



5)  $f(x) = 2 + \sin x$

$f(x) = \sin 2x$



6)  $f(x) = e^{-x}$

$f(x) = -e^x - 2$

