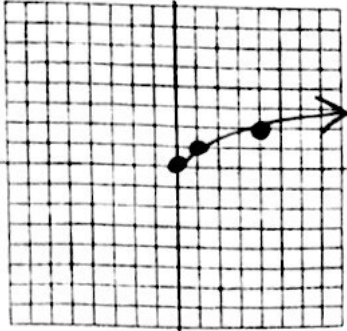
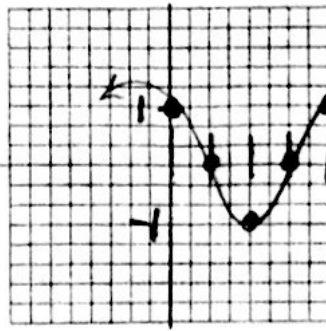


Review Parent Functions
AP Calculus AB Unit 1

Name: _____
Date: _____

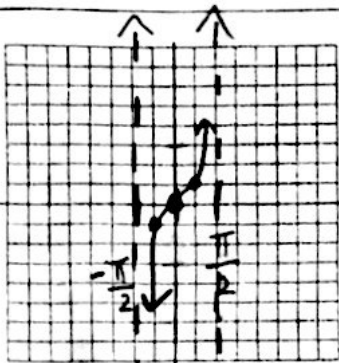


7 $f(x) = \sqrt{x}$
 Domain $[0, \infty)$
 Range $[0, \infty)$
 Roots $(0, 0)$
 Symmetry none
 Even/Odd none
 Periodic no
 One-to-one yes



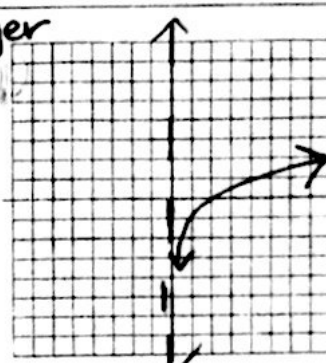
10 $f(x) = \cos x$
 Domain $(-\infty, \infty)$
 Range $[-1, 1]$
 Roots $(K\pi/2, 0)$
 Symmetry y-axis
 Even/Odd even
 Periodic yes
 One-to-one no

K is an odd integer

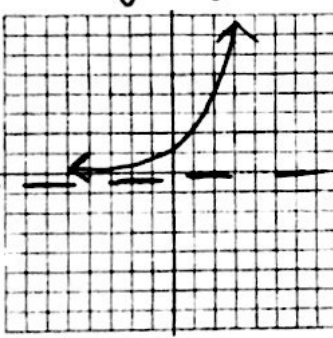


8 $f(x) = \tan x$
 Domain $\{x \mid x \neq K\pi/2\}$
 Range $(-\infty, \infty)$
 Roots $(K\pi, 0)$
 Symmetry origin
 Even/Odd odd
 Periodic yes
 One-to-one no

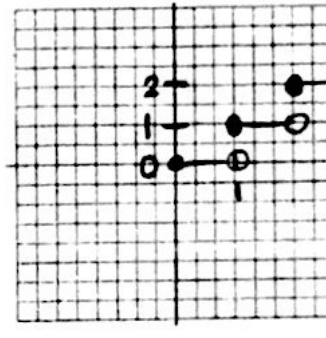
K is odd integer



11 $f(x) = \ln x$
 Domain $(0, \infty)$
 Range $(-\infty, \infty)$
 Roots $(1, 0)$
 Symmetry none
 Even/Odd neither
 Periodic no
 One-to-one yes



9 $f(x) = e^x$
 Domain $(-\infty, \infty)$
 Range $(0, \infty)$
 Roots none
 Symmetry none
 Even/Odd none
 Periodic none
 One-to-one yes



12 $f(x) = |x|$
 Domain $(-\infty, \infty)$
 Range $K, K \text{ is integer}$
 Roots —
 Symmetry none
 Even/Odd no
 Periodic no
 One-to-one no