

Domain / Range Worksheet

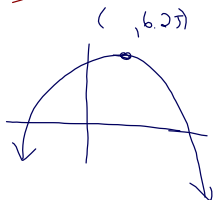
Name _____ **KEY** _____ Period _____

- 1) Draw a rough sketch of diagram, include asymptotes if needed
 2) Find the Domain and Range of each function

A) $y = -(x+3)(x-2)$

$D: (-\infty, \infty)$

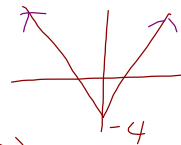
$R: (-\infty, 6.25]$



B) $f(x) = |x| - 4$

$D: (-\infty, \infty)$

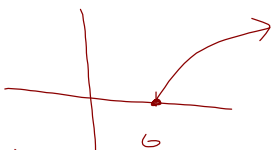
$R: [-4, \infty)$



C) $y = \sqrt{x-6}$

$D: [6, \infty)$

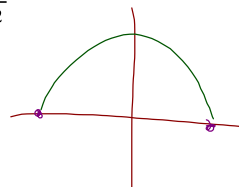
$R: [0, \infty)$



D) $y = \sqrt{25-x^2}$

$D: [-5, 5]$

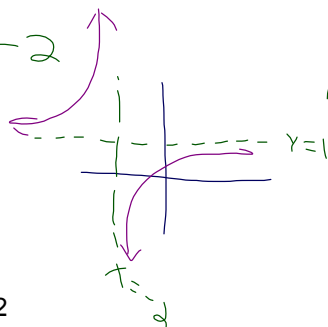
$R: [0, 5]$



E) $f(x) = \frac{x-1}{x+2}$

$D: x \neq -2$

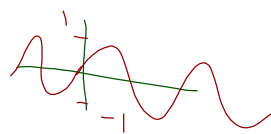
$R: y \neq 1$



F) $y = \sin x$

$D: (-\infty, \infty)$

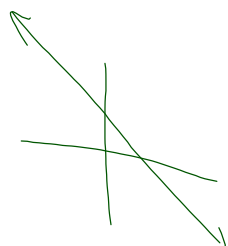
$R: [-1, 1]$



G) $y = -4x + 2$

$D: (-\infty, \infty)$

$R: (-\infty, \infty)$



H) $f(x) = 2(.5)^x$

$D: (-\infty, \infty)$

$R: (0, \infty)$

