

MTH 112 Class Notes 9-12-12
WEDNESDAY

(ex) $y = f(x) = \frac{1}{x-5} \quad x \neq 5$

(ex) pg 356 $y = \frac{5}{3x+2} \quad x \neq -\frac{2}{3}$

$$\text{domain} = \left\{ x \mid x \in \mathbb{R}, x \neq -\frac{2}{3} \right\}$$
$$= (-\infty, -\frac{2}{3}) \cup (-\frac{2}{3}, \infty)$$

(ex) $y = \sqrt{x}$ Domain?
Range?

$f(x), g(x)$

Algebra of Functions

$$f(x) - g(x), \quad f - g(x)$$

$$f \circ g(x)$$

$$(f - g)(x)$$

$$f[g(x)]$$