

$$f(x) = \sqrt{x|x|}, \quad g(x) = x \rightarrow R \quad \times$$

$$x|x| \geq 0 \Rightarrow R^+, \mathbb{R}$$

$$f(x) = \frac{(x+1)(x+1) + x + 1}{x^2 + 2x + 1}, \quad g(x) = 1$$

$$D = R \quad \times$$

$$f(x) = \frac{r \sin^2 x - r \sin x}{r \sin x - r}, \quad g(x) = r \sin x \quad \times$$

$$f(x) = \frac{x}{|x|}, \quad g(x) = \frac{|x|}{x}$$

$$D = R \quad \times$$

$$f(x) = \left[\frac{x^r}{x^{r+1}} \right], \quad g(x) = \left[\frac{x - [x]}{x} \right]$$

$$\frac{x^r + 1}{x^{r+1}} = \left[1 - \frac{1}{x^{r+1}} \right] = [1] = 1 \quad \times$$

$$f(x) = \frac{1}{[rx]}, \quad g(x) = \frac{1}{r[x]} \quad \checkmark$$

$$f(x) = \frac{1}{\sqrt{x-|x|}}, \quad g(x) = \frac{1}{\sqrt{|x|-x}}$$

$$x-|x| > 0$$

$$x > |x| \quad \phi$$

$$|x|-x > 0$$

$$|x| > x \quad R^-$$

$$f(x) = \begin{cases} \frac{x^r - x}{x-1} & x \neq 1 \\ x^r & x = 1 \end{cases}, \quad g(x) = x^r + x \quad \times$$

$$f(x) + g(x) = x^r + x + 1$$

$$r g(x) = r x \Rightarrow g(x) = x$$

$$f(x) - g(x) = x^r - x + 1$$

$$r \cdot f(x) = r x^r + r \Rightarrow f(x) = x^r + 1$$

$$f(x) = x^r + 1, \quad g(x) = x$$

Year: Month: Date: ()

Subject:

$$f(x) \times g(x) = (x - \sqrt{x^2 - c})(x + \sqrt{x^2 - c})$$

$$(a-b)(a+b) = a^2 - b^2$$

$$b = \sqrt{x^2 - c} \quad a = x$$

$$f(x)g(x) = x^2 - (x^2 - c) \Rightarrow f(x)g(x) = x^2 - x^2 + c = c$$

$$f(x)g(x) = c$$

$$x^2 - mx + n = \frac{1}{p}(px^2 - rx - a) \Rightarrow m = \frac{r}{p} \text{ and } n = -\frac{a}{p}$$

-A

$$2x + r = \frac{1}{p}(px - b) \Rightarrow a = \frac{1}{p} \text{ and } b = -r$$

$$am - bn = \frac{1}{c} \times \frac{r}{p} - (-r) \times (-\frac{a}{p}) = \frac{r}{c} - 10 = -\frac{r}{c}$$

Year: Month: Date: ()

Subject:

$$rf-1 = \{(-1, 3) (2, 4) (3, -5) (0, 0)\} \Rightarrow f = (-1, 3) (2, 4) (3, -5) (0, \frac{1}{4})$$

$$g\{(2, 4) (3, 4) (-1, -4) (0, 0)\} \Rightarrow r(g) = (2, 1) (3, 12) (-1, -1) (0, 0)$$

$$\frac{rf}{f+g} = (-1, \frac{-3}{4}) (2, \frac{1}{4}) (3, \frac{12}{4})$$

$$\frac{-b}{a} = a$$

$$b = -1a$$

$$\frac{-1a + 1}{1a - 1a} = c$$

نستخرج المعامل

$$a \Rightarrow \frac{a}{r} = \frac{r}{q} \Rightarrow a = \frac{r^2}{q}$$

$$f(x) = \frac{rx+a}{x^2+rx+b}$$

$$\frac{rx+a}{x-c} = \frac{r}{x^2+rx+b}$$

$$g(x) = \frac{r}{x-c}$$

$$\rightarrow x^2 - rx + c^2 - c = -rc$$

$$a+b+c \Rightarrow \frac{r}{r} + q - r = \frac{r+rv-q}{r} = \left(\frac{r}{r}\right) \quad \boxed{-r=c} \quad \boxed{q=b} \quad -9$$

$$f(x) = \sqrt{-x^2+x-m}$$

$$-x^2+x-m = (a \pm b)$$

$$x=0 \Rightarrow -m = (a \pm b) \quad a \pm b = R$$

$$g(x) = \{a \pm b\}$$

$$f = \{ (r, a) (-r, r-a-rb), (r, a) (r, d) \}$$

$$g = \{ (r, 1) (-r, 1) (x-rb, a) \}$$

$$\boxed{a = -1}$$

$$a - rb = c$$

$$d + c = -1 + a = r$$

$$rx - rb = 1$$

$$-1 + r = c$$

$$-r - rb = 1$$

$$\boxed{a = c}$$

$$-r = rb$$

$$\boxed{-r = b}$$

$$\boxed{a = -1}$$