

نام و نام خانوادگی: شماره دانشجویی: کلاس: شماره تشریحی تکلیف شماره A:

$$f(-x) = \sqrt{-x+1-x+1} \Rightarrow -x+1-x+1 \geq 0 \quad \frac{0}{x+1+x}$$

$$D_f = (-\infty, 2]$$

$$f(x) \neq 2, 1, 0 \quad \frac{x-1}{f(x)} \geq 0 \Rightarrow (x-1)(-x) \geq 0$$

مقدار x در بازه علامت باشد تا حرف درست.

$$y_1 = \frac{1}{9x^2 - 16x^2 - 4x - 3} \rightarrow y_2 = \frac{1 \pm \sqrt{36}}{5}$$

$$\sqrt{x^3 - x - \frac{3}{x}} - \frac{3}{x}$$

$$x = r \rightarrow f(10) = \sqrt{10} \quad f'(10) + f''(r) = 1$$

$$x = 1 \rightarrow f'(r) = 1$$

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$$f(x) = x^p - 4x^r + 12x \rightarrow (x-r)^p + x$$

$$g(x) = x^r + ax^r + bx^r \rightarrow (x+r)^r - r$$

$$\frac{g(\sqrt{r}-r)}{f(\sqrt{r}+r)} = \frac{-r}{10} = -1$$

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$$f(x) = \sqrt{x+3} + \sqrt{x-2} \rightarrow \sqrt{x-2} - r - \sqrt{(x-2+r)^r}$$

$$(\sqrt{x-2} - r) + (\sqrt{x-2} + r) \rightarrow \sqrt{x-2} - r + \sqrt{x-2} + r = 2\sqrt{x-2} = f'(x) + f''(x)$$

$$a+b\sqrt{x-2} = 2\sqrt{x-2} \quad c = -2 \frac{a+b}{2} \frac{r}{-2} = -\frac{1}{2}$$

$$f(x) = \left\{ (r, -2), (0, \frac{r}{2}) \right\}$$

$$\frac{g}{f} = \left\{ (r, -\frac{1}{2}), (0, r) \right\}$$

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$$f(x) = \left\{ (\frac{1}{2}, r), (1, 0, -1), (2, r), (-\frac{1}{2}, r) \right\}$$

$$g(x) = \left\{ (\pm 1, r), (\sqrt{r}, -1), (2, r), (x, \frac{r}{2}) \right\}$$

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$$g(x) = \left\{ (1, 2), (r, -r), (-1, r) \right\} \quad \frac{f'(x)}{g} = \left\{ (1, -2), (r, -1), (-1, \frac{r}{2}) \right\}$$