

$$c) g(x) = \frac{3-2x}{4x^2-1} = \frac{-2x+3}{4x^2-1} \quad \mathbb{D}_g = \mathbb{R} \setminus \left\{ \pm \sqrt{\frac{1}{4}} \right\}$$

$$y=0$$

$$x = -\sqrt{\frac{1}{4}}$$

$$d) g(x) = \frac{3+2x^2}{4x^2+1} = \frac{2x^2+3}{4x^2+1} \quad \mathbb{D}_g = \mathbb{R}$$

$$y = \frac{2}{4} = \frac{1}{2}$$

$$x = /$$

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$$e) f(x) = \frac{2x^3-1}{4x^2-x^2} = \frac{2x^3-1}{-x^2+4x^2} = \frac{2x^3-1}{x^2(4-x)} \quad \mathbb{D}_f = \mathbb{R} \setminus \{0; -4\}$$

$$y = -\frac{2}{1} = -2$$

$$x_1 = 0; x_2 = -4$$