

$$6) L = (-5, -6)$$

$$m = \frac{9}{8}$$

$$b = y - m \cdot x$$

$$b = -6 - \frac{9}{8} \cdot (-5)$$

$$b = \frac{-3}{8}$$

$$y = \frac{9}{8}x - \frac{3}{8}$$

$$y = \frac{9x-3}{8}$$

$$\left(\overset{x_1}{2}, \overset{y_1}{3} \right), \left(\overset{x_2}{\frac{2}{3}}, \overset{y_2}{\frac{3}{2}} \right)$$

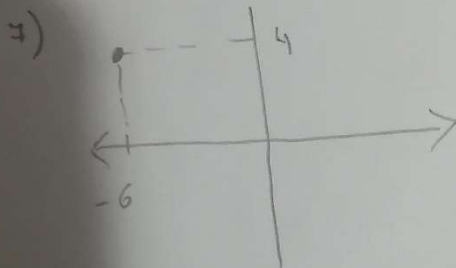
$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

$$m = \frac{\frac{3}{2} - 3}{\frac{2}{3} - 2}$$

$$m = \frac{9}{8}$$

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$$8) \frac{3x+2}{x^2-4}$$

$$S = \mathbb{R} - \{-2, 2\}$$

$$(x-2)(x+2) > 0$$

$$x = 2 \quad x = -2$$

$$3) \frac{2x-5}{x^2-5x+6}$$

$$(x-3)(x-2) \geq 0$$

$$x=3 \quad x=2$$

$$S = \mathbb{R} - \{2, 3\}$$

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$$4) \frac{3x}{5} + \frac{1}{5} \neq 0$$

$$\frac{3x}{5} > -\frac{1}{5}$$

$$x > -\frac{1}{5} / 3/5$$

$$x > -\frac{1}{3}$$

$$S = \left[-\frac{1}{3}, +\infty \right)$$

Apebr

$$5) L = y = 4x + 5$$

$$M_1 = 4$$

$$I = M_1 \cdot M_2 = -1$$

$$\boxed{4 \cdot -\frac{1}{4} = 1}$$

$$M = y + 5Kx + 2 = 0$$

$$y = -5Kx - 2$$

$$y = -5Kx - 2$$

$$-5 \cdot \frac{1}{20} = -\frac{1}{4}$$

$$2) a) f(x) = (x-3)^2 - x$$

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$$f(s) = (s-3)^2 - s = -1$$

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$$f(1) = (1-3)^2 - 1 = 3$$

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$$f(-5) - f(1) = -1 - 3 = -4$$

$$2) b) f(x) = 2 - \frac{7-2x}{5}$$

$$f(-\frac{3}{2}) = 2 - \frac{7-2(-\frac{3}{2})}{5} = 0$$

$$c) f(x) = 3 - \frac{1-x}{2}$$

$$s = 3 - \frac{1}{2} - \frac{x}{2}$$

$$s-3 = -\frac{1}{2} - \frac{x}{2}$$

$$2 + \frac{1}{2} = -\frac{x}{2}$$

$$\frac{5}{2} \cdot 2 = -x$$

$$s = -x$$

$$1) x^4 - 1 \leq 0$$

$$x - 1 \leq \sqrt[4]{0}$$

$$x \geq \sqrt[4]{0} + 1$$

$$x \geq 1$$

$$[1, +\infty[$$

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$$b) x^3 - 0x^2 - 3x - 2 = 0$$

$$\begin{array}{r|rrrr} 1 & -1 & +1 & +2 & -1 & (x+1) \\ \hline & 1x^2 & -1x & -2 & 0 \end{array}$$

$$(x-2)(x+1)(x+1) > 0$$

$$x=2$$

$$x=-1 \quad x=-1$$

$$-\infty \quad -1 \quad 2 \quad +\infty$$

(x-2)	-	-	0	+
(x+1)	-	0	+	+
(x+1)	-	0	+	+
*	-	-		+

$$S =]2, +\infty[$$