

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

$$f'(x) = 3x^2 - 4x$$

$$f'(2) = 3(2)^2 - 4(2)$$

$$f'(2) = 12 - 8$$

$$f'(2) = 4$$

$$y =$$

$$f(x) = 2x^3 - 3x^2 - 5x \quad (3)$$

$$f'(x) = 6x^2 - 6x - 5$$

$$f = 6x^2 - 6x - 5 \quad | -7$$

$$0 = 6x^2 - 6x - 12$$

$$\frac{6 \pm \sqrt{(-6)^2 - 4 \cdot 6 \cdot (-12)}}{12}$$

$$\frac{6 \pm \sqrt{36 + 288}}{12}$$

$$\frac{6 \pm \sqrt{324}}{12}$$

$$\frac{6 \pm 24}{12}$$

$$x_1 = 2,5$$

$$x_2 = -1,5$$

$$f(x) = -2x^3 + 54x$$

(2.2)

$$f(x) = -2x^3 + 54x$$

$$f'(x) = -6x^2 + 54$$

$$0 = -6x^2 + 54 \quad | -54$$

$$-54 = -6x^2 \quad | : -1$$

$$54 = 6x^2 \quad | : 6$$

$$9 = x^2 \quad | \sqrt{}$$

$$\boxed{3 = x}$$

$$f(x) = x^3 - 6x^2 + 1 \quad (1.2)$$

$$f'(x) = 3x^2 - 12x$$

$$0 = 3x^2 - 12x \quad | +12x$$

$$12x = 3x^2 \quad | :3$$

$$4x = x^2 \quad | \text{ ~~12x~~ } :x$$

$$x_1 = 0$$

$$4 = x_2$$

$$\frac{(y+4)}{y^2+16} \cdot \frac{y^2-16}{2y+8} \quad \text{od}$$

$$\frac{(y^2+16)(y+4)}{y^2+16} \cdot \frac{(y^2-16)(2y+8)}{2y+8}$$

$$(y+4) \cdot (2y+8) \cdot \frac{(y^2-16)(2y+8)}{2y+8}$$

$$(y+4) \cdot (2y+8) \cdot y^2 = 4y^3$$

$$(2y^2 + 8y + 4y + 32) \cdot (y^4 - 4^2)$$

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$$\frac{3}{x+1} + \frac{1}{x}$$

$$\frac{3x+1(x+1)}{x(x+1)}$$

$$\frac{3x+1(x+1)}{x^2+x}$$

$$I \quad x - y = 1 \quad | +y$$

$$I \quad x = 1 + y$$

$$II \quad 3(1+y) + 5y = 67$$

$$II \quad 3 + 3y + 5y = 67$$

$$II \quad 3 + 8y = 67 \quad | -3$$

$$II \quad 8y = 64$$

$$II \quad \boxed{y = 8}$$

$$I \quad x - 8 = 1 \quad | +8$$

$$I \quad \boxed{x = 9}$$

$$C(9, 8)$$