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(430)

(2, 5) (-6, 3) -> מציאת המשוואה
בנקודה

$$m = \frac{5-3}{2-(-6)} = \frac{2}{8} = \frac{1}{4}$$

$$y' = \frac{1}{x^2} = \frac{1}{4} \rightarrow x = \pm 2$$

(-2, 2.5) x = -2 הנקודה הנמצאת

$$y - 2.5 = \frac{1}{4}(x + 2)$$

$$y = \frac{1}{4}x + 3$$

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(431)

$$y = \frac{x+a}{x+1} \rightarrow y' = \frac{1(x+1) - 1(x+a)}{(x+1)^2} = \frac{1-a}{(x+1)^2}$$

ל

$$y = 4x - 3 \rightarrow y' = 4$$

$$4 \cdot \frac{1-a}{(x+1)^2} = -1 \quad / (x+1)^2$$

$$4 - 4a = -(x+1)^2 \quad / x = 3$$

$$4 - 4a = -16$$

$$4a = 20 \rightarrow a = 5$$

$$y = \frac{x+5}{x+1} \rightarrow y' = \frac{x+1 - (x+5)}{(x+1)^2} = \frac{-4}{(x+1)^2}$$

ג

$$4 \cdot \frac{(-4)}{(x+1)^2} = -1$$

$$-16 = -(x+1)^2$$

$$(x+1)^2 = 16$$

$$x = 3 \quad x = -5$$

(3, 2) (-5, 0)

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(432)

$$y' = \frac{-2x}{x^4} = \frac{-2}{x^3}$$

(0, 3/a^2)

$$x = a \rightarrow \frac{-2}{a^3}$$

אנחנו מחפשים

$$y - \frac{1}{a^2} = \frac{-2}{a^3}(x-a)$$

$$y = \frac{-2}{a^3}x + \frac{3}{a^2} \quad x=0 \quad \text{נקודה}$$

$$y = -\frac{2x}{a^3} + \frac{3}{a^2}$$

$$0 = -\frac{2x}{a^3} + \frac{3}{a^2}$$

$$y = 0 \quad \text{נקודה}$$

$$2x = 3a \quad | x = 1.5a$$

$$\frac{2x}{a^3} = \frac{3}{a^2}$$

(1.5a, 0)