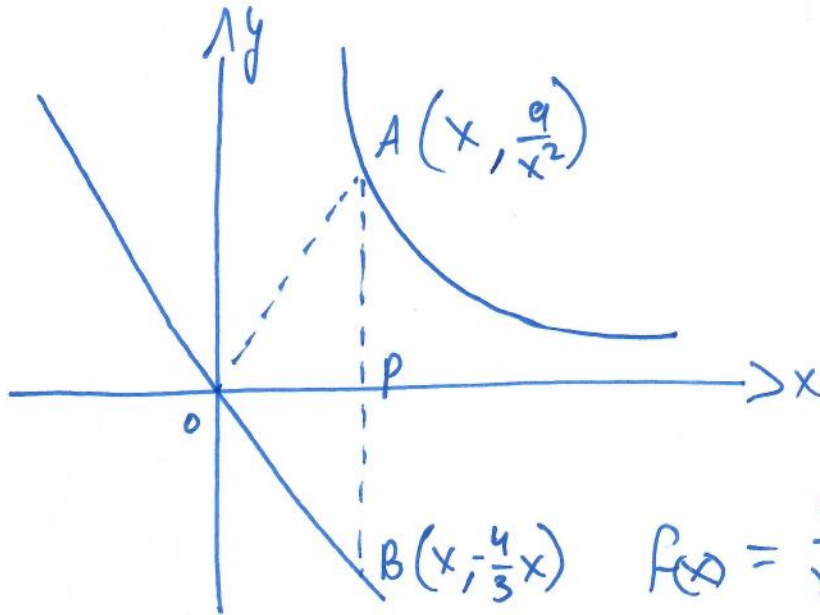


: 8 = 160



(6)

$$f(x) = \frac{9}{x^2} \quad x > 0$$

$$y = -\frac{4}{3}x$$

$$S_{\Delta AOB} = \frac{OP \cdot AB}{2}$$

$$OP = x, \quad AB = \frac{9}{x^2} + \frac{4}{3}x$$

$$S = \frac{x \left( \frac{9}{x^2} + \frac{4}{3}x \right)}{2} = \frac{\frac{9}{x} + \frac{4}{3}x^2}{2} = \frac{27 + 4x^3}{6x}$$

$$S' = \frac{12x^2(x \cdot 6) - (27 + 4x^3) \cdot 6}{36x^2}$$

$$S' = \frac{72x^3 - 162 - 24x^3}{36x^2}$$

$$S' = \frac{48x^3 - 162}{36x^2}$$

$$0 = 48x^3 - 162$$

$$48x^3 = 162$$

$$x^3 = \frac{27}{8}$$

$$\boxed{x = \frac{3}{2}}$$

x	0	1	$\frac{3}{2}$	2
$f'(x)$	//	-	0	+
$f(x)$	//	∪	m	↗

~~Handwritten scribbles~~

(2) אכן, הנשען המניחה הוא 4.5 והוא  
אכן הוא יכול רק להיות מצד ימין.