It is given that a curve has equation $y = k(3x - k)^{-1} + 3x$, where k is a constant. (a) Find, in terms of k, the values of x at which there is a stationary point. [4]

The	function	f ha	s a static	onary valı	ie at $x =$	a and	is	defined	by	y

f(x) =
$$4(3x - 4)^{-1} + 3x$$
 for $x \ge \frac{3}{2}$.

Find the value of a and determine the nature of the stationary value.	[3
The function g is defined by $g(x) = -(3x+1)^{-1} + 3x$ for $x \ge 0$.	
	unction, a decreasir
The function g is defined by $g(x) = -(3x+1)^{-1} + 3x$ for $x \ge 0$. Determine, making your reasoning clear, whether g is an increasing f	unction, a decreasin
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