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PROPER SELECTION QUESTIONS

TABLE-SELECTION GAME

Select one or more correct answers for each of the questions in the test and press the Finish button at the end. The answers will be validated automatically.



Let

$$f(x) = \log_5 x ,$$

$$g(x) = \log_{\frac{1}{2}}(x + 1) ,$$

$$h(x) = \log_2(x) + 1 ,$$

$$k(x) = \log_{\frac{1}{4}}(x - 1) + 1 ,$$

$$l(x) = -\log_3(-x) ,$$

$$m(x) = \log_3(1 - x) + 1 .$$

In the table, at each line, choose the functions for which the statement is true.

		$f(x)$	$g(x)$	$h(x)$	$k(x)$	$l(x)$	$m(x)$
1.	The function is increasing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.	The function is decreasing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3.	The function is an injective (one-to-one) function.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.	The function has a vertical asymptote at $x = 1$.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5.	The function has a domain of $(-\infty; 1)$.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6.	The function has a range of $(-\infty; \infty)$.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

