sem-satisfiable[0,22]

$\vdash X \equiv_{\text{def}} \exists pr{:}Pgm.\ pr \vDash X$

clarification:

sem-satisfiable$(S;Pgm;X) \equiv_{\text{def}} \exists pr{:}Pgm.$ sem-sat$(S;pr;X)$

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http://www.cs.cornell.edu/Info/Projects/NuPrl/FDLcontent/p0_286125_/p35_399410_{sem-satisfiable}.html