

	L22-24 Arvind
Confluence is difficult to Prove	
$\begin{array}{lll} A(x,0) & \to x \\ A(x,S(y)) & \to S(A(x,y)) \\ M(x,0) & \to 0 \\ M(x,S(y)) & \to ? \mathfrak{A}(M(x,y),x) \end{array}$	
$\begin{array}{lll} Ack(0, x) & \to S(x) \\ Ack(S(y), 0) & \to Ack(x, S(0)) \\ Ack(S(x), S(y)) & \to Ack(x, Ack(S(x), y)) \end{array}$	
$\begin{array}{ccccc} S & x & y & z & & \rightarrow x & z & (y & z) \\ K & x & y & & \rightarrow x \end{array}$	
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	L22-26 Arvind
Orthogonal TRS: Examples	
$\begin{array}{ll} A(x,0) & \to x \\ A(x,S(v)) & \to S(A(x,v)) \end{array}$	
$ \begin{array}{ll} M(x,0) & \to 0 \\ M(x,S(y)) & \to 2\mathfrak{R}(M(x,y),x) \end{array} $	
$\Delta ck(0, \mathbf{x}) \rightarrow \mathbf{S}(\mathbf{x})$	
$\begin{array}{llllllllllllllllllllllllllllllllllll$	
$\neg \neg $	
$\begin{array}{ccc} S & x & y & z & \rightarrow x & z & (y & z) \\ K & x & y & z & z & z & y & z \end{array}$	
$K \land Y \to A$	
http://www.csg.lcs.mit.edu/6.827	

