Problem #55

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Summary: In the λ -calculus, which sets have the form $\{M|Q\to^*PM\}$?

It has been proved that (in λ -calculus or Combinatory Logic) every recursively enumerable set of ground terms that is closed under conversion has the form $\{M|PM\leftrightarrow^*Q\}$ for some P and Q. Which sets have the form $\{M|Q\to^*PM\}$?