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Noah Schweber*, 425 W. Washington Ave., Apt. 512, Madison, WI 53703. *What should higher reverse math be?*

There are many possible ways to extend reverse mathematics to a higher-order setting. I'll present some approaches to developing a natural third-order version of reverse mathematics from a computability-theoretic viewpoint. I'll also discuss how these relate to the more proof-theoretic approach, which so far has received more attention. (Received March 21, 2017)