





$N =$	$P_{10} = \frac{45}{16}$		$P_{11} = \frac{16}{16}$		$P_{12} = \frac{16}{16}$		$P_{13} = \frac{16}{16}$		$P_{14} = \frac{16}{16}$		$P_{15} = \frac{16}{16}$		$P_{16} = \frac{16}{16}$		$P_{17} = \frac{16}{16}$		$P_{18} = \frac{16}{16}$		$P_{19} = \frac{16}{16}$		$P_{20} = \frac{16}{16}$		$P_{21} = \frac{16}{16}$		$P_{22} = \frac{16}{16}$		$P_{23} = \frac{16}{16}$		$P_{24} = \frac{16}{16}$		$P_{25} = \frac{16}{16}$		$P_{26} = \frac{16}{16}$		$P_{27} = \frac{16}{16}$		$P_{28} = \frac{16}{16}$		$P_{29} = \frac{16}{16}$		$P_{30} = \frac{16}{16}$		$P_{31} = \frac{16}{16}$		$P_{32} = \frac{16}{16}$		$P_{33} = \frac{16}{16}$		$P_{34} = \frac{16}{16}$		$P_{35} = \frac{16}{16}$		$P_{36} = \frac{16}{16}$		$P_{37} = \frac{16}{16}$		$P_{38} = \frac{16}{16}$		$P_{39} = \frac{16}{16}$		$P_{40} = \frac{16}{16}$		$P_{41} = \frac{16}{16}$		$P_{42} = \frac{16}{16}$		$P_{43} = \frac{16}{16}$		$P_{44} = \frac{16}{16}$		$P_{45} = \frac{16}{16}$		$P_{46} = \frac{16}{16}$		$P_{47} = \frac{16}{16}$		$P_{48} = \frac{16}{16}$		$P_{49} = \frac{16}{16}$		$P_{50} = \frac{16}{16}$		$P_{51} = \frac{16}{16}$		$P_{52} = \frac{16}{16}$		$P_{53} = \frac{16}{16}$		$P_{54} = \frac{16}{16}$		$P_{55} = \frac{16}{16}$		$P_{56} = \frac{16}{16}$		$P_{57} = \frac{16}{16}$		$P_{58} = \frac{16}{16}$		$P_{59} = \frac{16}{16}$		$P_{60} = \frac{16}{16}$		$P_{61} = \frac{16}{16}$		$P_{62} = \frac{16}{16}$		$P_{63} = \frac{16}{16}$		$P_{64} = \frac{16}{16}$		$P_{65} = \frac{16}{16}$		$P_{66} = \frac{16}{16}$		$P_{67} = \frac{16}{16}$		$P_{68} = \frac{16}{16}$		$P_{69} = \frac{16}{16}$		$P_{70} = \frac{16}{16}$		$P_{71} = \frac{16}{16}$		$P_{72} = \frac{16}{16}$		$P_{73} = \frac{16}{16}$		$P_{74} = \frac{16}{16}$		$P_{75} = \frac{16}{16}$		$P_{76} = \frac{16}{16}$		$P_{77} = \frac{16}{16}$		$P_{78} = \frac{16}{16}$		$P_{79} = \frac{16}{16}$		$P_{80} = \frac{16}{16}$		$P_{81} = \frac{16}{16}$		$P_{82} = \frac{16}{16}$		$P_{83} = \frac{16}{16}$		$P_{84} = \frac{16}{16}$		$P_{85} = \frac{16}{16}$		$P_{86} = \frac{16}{16}$		$P_{87} = \frac{16}{16}$		$P_{88} = \frac{16}{16}$		$P_{89} = \frac{16}{16}$		$P_{90} = \frac{16}{16}$		$P_{91} = \frac{16}{16}$		$P_{92} = \frac{16}{16}$		$P_{93} = \frac{16}{16}$		$P_{94} = \frac{16}{16}$		$P_{95} = \frac{16}{16}$		$P_{96} = \frac{16}{16}$		$P_{97} = \frac{16}{16}$		$P_{98} = \frac{16}{16}$		$P_{99} = \frac{16}{16}$		$P_{100} = \frac{16}{16}$		$P_{101} = \frac{16}{16}$		$P_{102} = \frac{16}{16}$		$P_{103} = \frac{16}{16}$		$P_{104} = \frac{16}{16}$		$P_{105} = \frac{16}{16}$		$P_{106} = \frac{16}{16}$		$P_{107} = \frac{16}{16}$		$P_{108} = \frac{16}{16}$		$P_{109} = \frac{16}{16}$		$P_{110} = \frac{16}{16}$
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$$t = N\mathbf{1}$$
[illegible]

Finally, we see that  $t_0 = \boxed{\frac{213}{29} \approx 7.345}$