



14. Which of the following values of the positive integer n is a counterexample to the statement: "If n is not prime then $n - 2$ is not prime" ?
- A 6 B 11 C 27 D 33 E 51

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- 14. D** The five options give the values of n to be considered. In option B, 11 is prime so that can be discounted. The options A, C and E are 6, 27 and 51 which are not prime and subtracting 2 from each of these gives 4, 25 and 49 which are also not prime. However in D, $n = 33$ which is not prime but $n - 2 = 31$ is prime.