

MATH 111: QUIZ #3

1. If a polyhedron has 17 vertices and 30 edges, how many faces does it have?
2. Fix the following diagram by adding dots and segments so that it becomes a connected graph. (There are many correct ways to do this; I will accept any correct solution.)
3. What are V , E , and F for the finished picture you have created in #2?
4. If you roll a standard 6-sided die 60 times, how many times *on average* would you *expect* to roll a 3?
5. Suppose you perform the experiment in question #4. Why would you not be surprised if the number of times you rolled a 3 was not exactly equal to the answer you gave in #4?