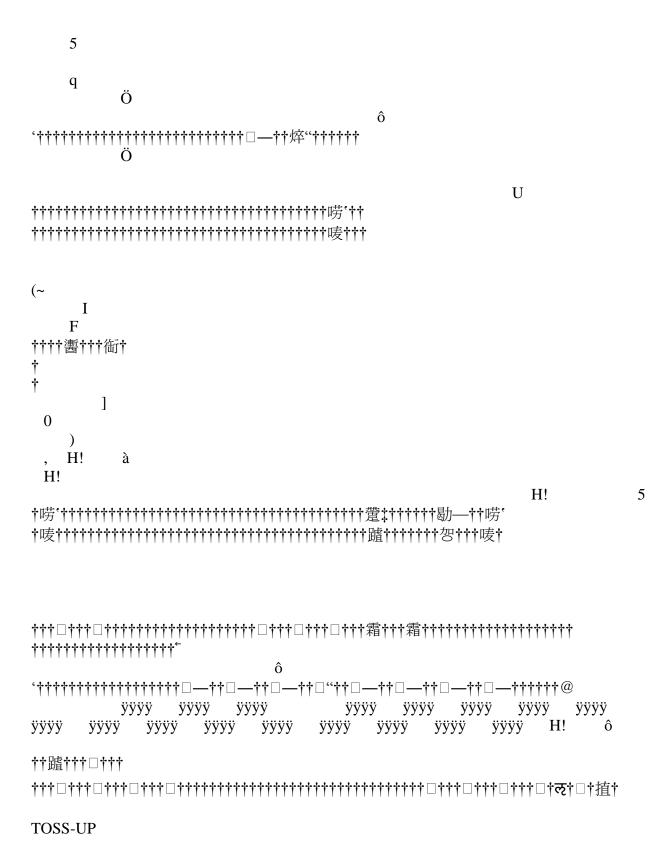
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TOSS-UP4) Choice Which of the tateents is false regaoche lobes?W) Mass transfer must take occur from the larger Roche lobe to the smaller Roche lobeX) If an evolr expands far enough to

fill its, it will take on the teardrop shape of the Roche surfaceY) The L1 Lagraan point lies at ttion of the two Roche lobes in a binary star systemZ) They are dumelhaped lobes that determions oftional dominance in bin str systemSWER: W)

## TOSS-UP

5) MATH Short Anwer If a convex polyhedron has 10 fes and 16 edes, how many verti does it ha?

ANSWER: 8 BONUS

- 5) MATH Short Answer By words or number, identll of the followihoices that is or are correcched to their Euer charastic
- 1. 4 vertices, 6 edges, 4 faces. Eularacteristic 2
- 2. 6 vertices, 12 edges, 7 faces. Euler christic 2
- 3. 12 veices, 24 edges, 10 faces, Eer characteristic -2
- 4. 12 vertices, 2ges, 12 faces Euler characteristic -2

ANSWER: 1 and 3

**TOSS-UP** 

6) ENGY

ANSWR:

Rohan Deshpande

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