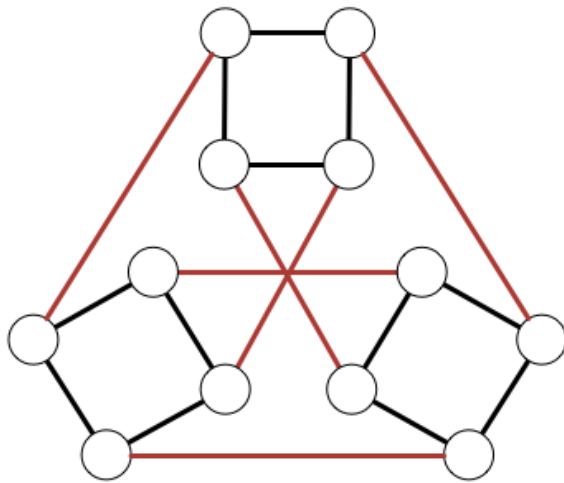


1. What is the minimal number of edges composing a cut-set that yields 2 components from the graph below?



(3 points)

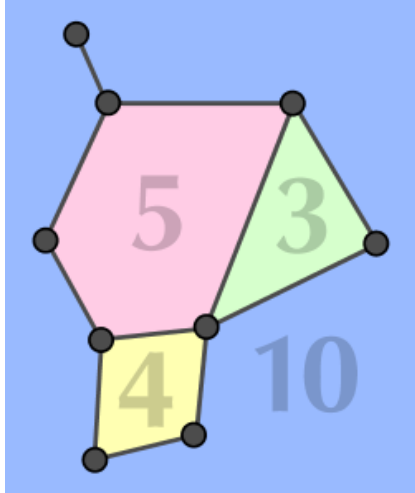
- A. 2
- ✓ B. 3
- C. 4
- D. 5

2. How many regions does a connected planar graph $G=(V,E)$ produce if $|V|=50$ and $|E|=60$?

(3 points)

- A. 10
- B. 11
- ✓ C. 12
- D. 13

3. What is the degree of Region 10 in the planar embedding below?



(3 points)

A. 7

B. 8

C. 9

✓ D. 10