

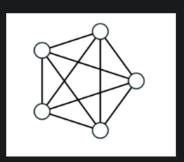
What is the size of a minimum vertex cover of this graph?

- - ✓ Correct

Correct, the central vertex covers all edges.

2.

1/1 point

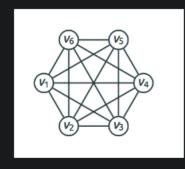


What is the size of a minimum vertex cover in  $K_5$ ?



**⊘** Correct

Correct, any set of 4 vertices covers all edges.



What is the size of a minimum vertex cover in  $K_n$ ?

- Ог
- $\bigcap \lceil n/2 \rceil + 1$
- n-1
- O 4

Correct, any set of (n-1) vertices covers all edges.

**4.** Give an example of a graph on n vertices where a minimum vertex cover has size  $\beta>n/2$  and a maximum independent set has size  $\alpha>n/2$ .

1/1 point

- $\bigcirc K_{n/2,n/2}$
- $\bigcirc K_n$
- There are no such graphs
- $\bigcirc C_n$ 
  - ✓ Correct

Correct. In any graph G on n vertices, eta(G)+lpha(G)=n , thus, there are no such graphs.