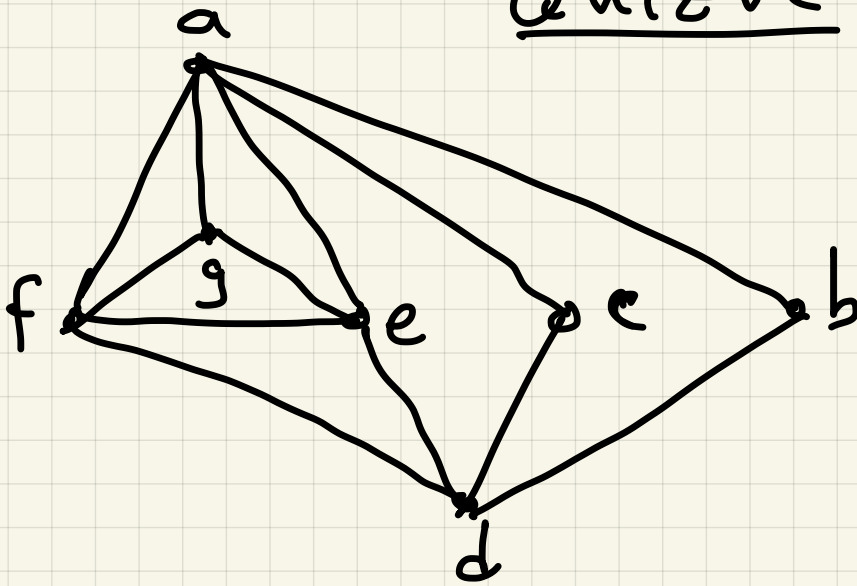


## Quiz 12



1.  $n=7, m=12, r=7$   
(Euler:  $n-m+r=2 \checkmark$ )

2. No, because a, g have odd degree

3. Yes, because exactly two vertices with odd degree (a, g):

$\langle a, b, d, c, a, e, d, f, g, a, f, e, g \rangle$   
for one (many)

4.  $\kappa(G)=2$  (Thm  $\Rightarrow f(G)=2 \geq bstr$ )  
5.  $\lambda(G)=2$