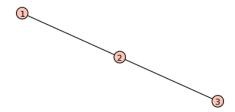
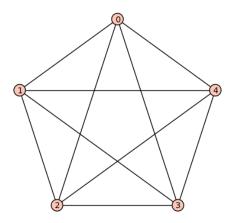
Last name	
First name	

LARSON—MATH 356—HOMEWORK WORKSHEET 01

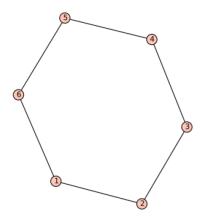
Independent Sets and maxset(G)



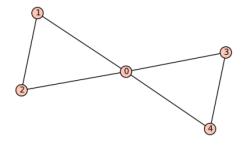
- 1. Let G be the above graph. Answer the following questions.
 - (a) Find the set of vertices V.
 - (b) Find the set of edges E (remember to use Wilf's pair notation for your edges).
 - (c) Find a maximum independent set I of G.
 - (d) Argue that your set I is maximum (that there can't be a larger independent set).
 - (e) Find maxset(G).



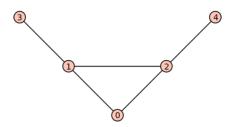
- 2. Let G be the above graph. Answer the following questions.
 - (a) Find the set of vertices V.
 - (b) Find the set of edges E (remember to use Wilf's pair notation for your edges).
 - (c) Find a maximum independent set I of G.
 - (d) Argue that your set I is maximum (that there can't be a larger independent set).
 - (e) Find maxset(G).



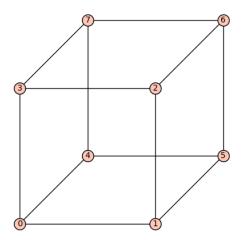
- 3. Let G be the above graph. Answer the following questions.
 - (a) Find the set of vertices V.
 - (b) Find the set of edges E (remember to use Wilf's pair notation for your edges).
 - (c) Find a maximum independent set I of G.
 - (d) Argue that your set I is maximum (that there can't be a larger independent set).
 - (e) Find maxset(G).



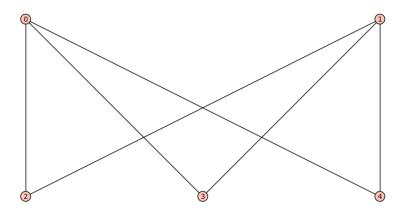
- 4. Let G be the above graph. Answer the following questions.
 - (a) Find the set of vertices V.
 - (b) Find the set of edges E (remember to use Wilf's pair notation for your edges).
 - (c) Find a maximum independent set I of G.
 - (d) Argue that your set I is maximum (that there can't be a larger independent set).
 - (e) Find maxset(G).



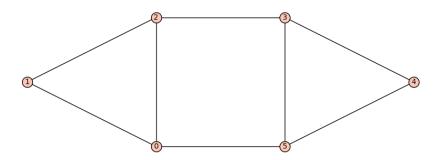
- 5. Let G be the above graph. Answer the following questions.
 - (a) Find the set of vertices V.
 - (b) Find the set of edges E (remember to use Wilf's pair notation for your edges).
 - (c) Find a maximum independent set I of G.
 - (d) Argue that your set I is maximum (that there can't be a larger independent set).
 - (e) Find maxset(G).



- 6. Let G be the above graph. Answer the following questions.
 - (a) Find the set of vertices V.
 - (b) Find the set of edges E (remember to use Wilf's pair notation for your edges).
 - (c) Find a maximum independent set I of G.
 - (d) Argue that your set I is maximum (that there can't be a larger independent set).
 - (e) Find maxset(G).



- 7. Let G be the above graph. Answer the following questions.
 - (a) Find the set of vertices V.
 - (b) Find the set of edges E (remember to use Wilf's pair notation for your edges).
 - (c) Find a maximum independent set I of G.
 - (d) Argue that your set I is maximum (that there can't be a larger independent set).
 - (e) Find maxset(G).



- 8. Let G be the above graph. Answer the following questions.
 - (a) Find the set of vertices V.
 - (b) Find the set of edges E (remember to use Wilf's pair notation for your edges).
 - (c) Find a maximum independent set I of G.
 - (d) Argue that your set I is maximum (that there can't be a larger independent set).
 - (e) Find maxset(G).