Math 435, Practice problems

Section 4.2: 3, 4, 5(b,c)
Section 4.3: 1, 2, 4, 5, 6(a-d), 7

Hints for 4.3-2: You may assume that E has equation $xy+yz+zx=0$ and $A=[1,0,0]$, $B=[0,1,0]$, $C=[0,0,1]$, and $D=[d^2+d, d+1, -d]$. (Explain why!) Now find the equations of the relevant lines and the homogeneous coordinates of the relevant points. This method is useful for many problems.

Hints for 4.3-7: You may assume that E has equation $xy+yz+zx=0$ and $A=[1,0,0]$, $B=[0,1,0]$, $C=[0,0,1]$. Then find D, P, and Q.

Do not turn in.