

1. Write your name below:
  
2. Trace the operation of  $\text{DFS-VISIT}(G, A)$  from the textbook (p. 565) on the following directed graph  $G$  using the conventions of Figure 20.4 (p. 566) of the textbook, adapted as follows. In particular:
  - Depict the state of the graph after each iteration of the for loop.
  - Annotate each vertex with its color: **White**, **Gray**, **Black**. Use either the first letter of each color or use: single circle for white, double circle for grey, and box for black, as in class.
  - Record the discovery and finishing times in the format  $d/f$ .
  - Highlight tree edges using double lines, and annotate **Forward**, **Backward**, and **Cross** edges.



