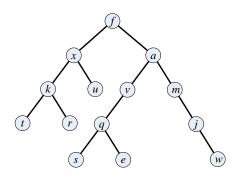
The point values for each question is given within []. The total number of points for this assignment is 9.

Consider the binary tree rooted at f shown below:



- [1] 1. What is the height of the tree?
- [1] 2. What are the leaves of the tree.
- [1] 3. What are the descendants of vertex x?
- [1] 4. What are the ancestors of vertex k?
- [1] 5. Provide the preorder traversal for the tree.
- [1] 6. Provide the inorder traversal for the tree.
- [1] 7. Provide the postorder traversal for the tree.
- [1] 8. What is the maximum number of vertices in a binary tree of height *h*?
- [1] 9. What is the minimum number of vertices in a binary tree of height h?