For the weighted graph below,

- Find the path from $V_{\text{init}}$ to $V_{\text{goal}}$ using Breadth-First Search.
- Find the path from $V_{\text{init}}$ to $V_{\text{goal}}$ using Depth-First Search.
- Find the path from $V_{\text{init}}$ to $V_{\text{goal}}$ using the $A^*$ algorithm.