Name:

Pitt ID:

-------------------------------------------------------------------------------------------------------------------------------

**Router Interface**

Node A Routing Table:

Which route does Node A use to reach C’s 10.1.3.1 interface? How can you tell?

Which route does Node A use to reach C’s 10.1.2.2 interface? How can you tell?

Node C Routing Table:

Which route does Node C use to reach A’s 10.1.1.1 interface? How can you tell?

-------------------------------------------------------------------------------------------------------------------------------

**Dead Link**

Node A neighbor table output, showing that D has been removed:

Node A neighbor table output, showing that D has been restored:

-------------------------------------------------------------------------------------------------------------------------------

**Route Change**

Traceroute output from Node A to Node C’s 10.1.3.1 interface *after* taking down Node D’s 10.1.4.1 interface:

Is traffic successfully rerouted through Node B? How do you know?

Traceroute output from Node A to Node C’s 10.1.3.1 interface after bringing Node D’s 10.1.4.1 interface back up:

-------------------------------------------------------------------------------------------------------------------------------

**Link Costs**

Node A enp7s0 IP address:

Node A enp7s0 Cost:

Node A enp8s0 IP address:

Node A enp8s0 Cost:

How could you modify the cost for one of Node A’s interfaces such that it will normally route to the 10.1.3.1 interface by going through Node B? Be specific: which interface would you change, and what value would you set its cost to?

Commands used to change interface cost:

Traceroute output from Node A to 10.1.3.1 *after* modifying link costs: