

Case#	Destination location according to source node	First option	Second option	Third option
1	$\Delta X > 0$ and $\Delta Y = 0$	East Node	North Node	South Node
2	$ \Delta X > \Delta Y $ and $\Delta X > 0$ and $\Delta Y > 0$	East Node	North Node	South Node
3	$ \Delta X = \Delta Y $ and $\Delta X > 0$ and $\Delta Y > 0$	North Node	East Node	South Node
4	$ \Delta X < \Delta Y $ and $\Delta X > 0$ and $\Delta Y > 0$	North Node	East Node	West Node
5	$\Delta X = 0$ and $\Delta Y > 0$	North Node	East Node	West Node
6	$ \Delta X < \Delta Y $ and $\Delta X < 0$ and $\Delta Y > 0$	North Node	West Node	East Node
7	$ \Delta X = \Delta Y $ and $\Delta X < 0$ and $\Delta Y > 0$	North Node	West Node	East Node
8	$ \Delta X > \Delta Y $ and $\Delta X < 0$ and $\Delta Y > 0$	West Node	North Node	South Node
9	$\Delta X < 0$ and $\Delta Y = 0$	West Node	North Node	South Node
10	$ \Delta X > \Delta Y $ and $\Delta X < 0$ and $\Delta Y < 0$	West Node	South Node	North Node
11	$ \Delta X = \Delta Y $ and $\Delta X < 0$ and $\Delta Y < 0$	West Node	South Node	East Node
12	$ \Delta X < \Delta Y $ and $\Delta X < 0$ and $\Delta Y < 0$	South Node	West Node	East Node
13	$\Delta X = 0$ and $\Delta Y < 0$	South Node	West Node	East Node
14	$ \Delta X < \Delta Y $ and $\Delta X < 0$ and $\Delta Y > 0$	South Node	West Node	East Node
15	$ \Delta X = \Delta Y $ and $\Delta X < 0$ and $\Delta Y > 0$	South Node	East Node	West Node
16	$ \Delta X > \Delta Y $ and $\Delta X < 0$ and $\Delta Y > 0$	East Node	South Node	North Node