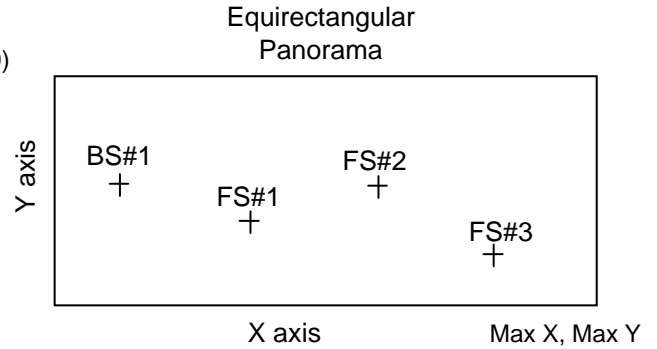
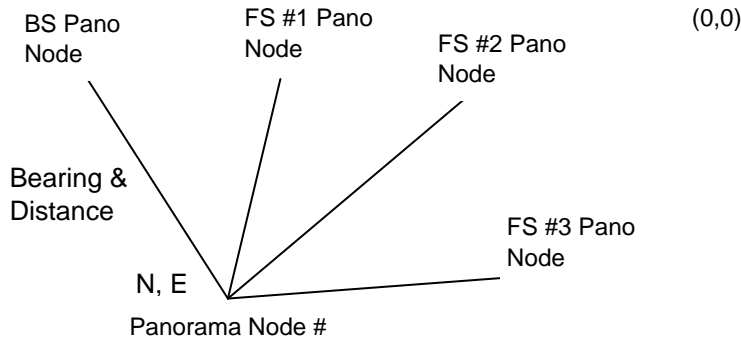
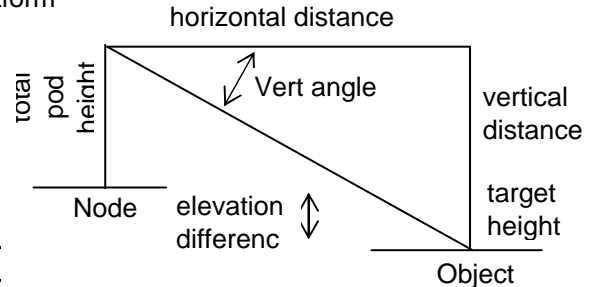


# Panorama XML Cluster Builder - 4 Direction Nodes

Calculates directions & elevation differences from panorama



Panorama Max X	47.771	Pod Total	0.14	Camera Platform
Panorama Max Y	23.882	Target ht	5.51	Pod Height
			0.030	Spin Plate metres
			5.68	
			0.6	



## Calculate Forward Point Coordinates

	Point #	Northing	Easting	Bearing	Distance metres
From					
To		0.000	0.000		

## 4 Direction Cluster

at Node #	BS #	Input Pano X Value	Input Pano Y Value	Input Distance	Calculated Direction	Elevation Difference	Direction Grads
5	1a	8.021	13.222	32.89	0.000	-0.51	0.000
	FS 1 #	4	24.09	13.104	31.7	121.095	0.19
	FS 2 #	3	33.91	13.285	30.62	195.098	-0.39
	FS 3 #	2	46.146	13.153	36.83	287.308	-0.84

## 4 Leg Direction/Distance Cluster follows

```

<obs from= "5" >
<direction to= "1a" val="0" stdev="300" />
<direction to= "4" val="134.550236696741" stdev="300" />
<direction to= "3" val="216.775846526972" stdev="300" />
<direction to= "2" val="319.231300893848" stdev="300" />
<distance to= "1a" val="32.89" stdev="50" />
<distance to= "4" val="31.7" stdev="50" />
<distance to= "3" val="30.62" stdev="50" />
<distance to= "2" val="36.83" stdev="50" />
</obs>

```

## Derived Elevation Differences

From	To	Derived Elevation Differences
1a	4	0.71
1a	3	0.12
1a	2	-0.33
4	3	-0.58
4	2	-1.03
3	2	-0.45

```

<height-differences>
<dh from= "5" to="1a" val="-0.514552488750633" stdev="0.3" />
<dh from= "5" to="4" val="0.192798219700144" stdev="0.3" />
<dh from= "5" to="3" val="-0.389867381127181" stdev="0.3" />
<dh from= "5" to="2" val="-0.841345863497799" stdev="0.3" />
</height-differences>

```

vertical  
distance