## Cheatography

## BAE 204 Exam 2 Cheat Sheet by Shelbeans (shelbeans) via cheatography.com/177819/cs/37830/

Alignmen	t Chapter	
What are project	the steps when designing a	
<ol> <li>import the existing conditions 2. layout</li> <li>a 2d version of key features i.e. building</li> <li>outlines, road centerlines, pipe networks</li> </ol>		
what types of segments make up an alignment?		
tangents, curves, and spirals		
What connects segments?		
geometry points that include <b>PI, PC,</b> and <b>PT</b>		
What are segment properties?		
they can be Fixed, Floating, and Free		
Profile Chapter		
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or user to represent the elevations Layout of the proposed design Profile

## Alignment Definitions

Alignment	a 2d line made of straight
	and/or curved segments, used
	to represent linear projects
	such as roads, pipelines,
	streams, has <b>no elevation</b> but it
	has direction
Tangents	straight segments

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Published 7th September, 2024. Last updated 21st March, 2023. Page 1 of 1. Sponsored by Readable.com Measure your website readability! https://readable.com

Alignment	Definitions (cont)
Curves	curved segments with a <b>constant radius</b> (arcs)
Spirals	curved segments that <b>change in radius</b> from one end to the other
PI	Point of Intersection, where 2 tangents intersect or would intersect
PC	Point of Curvature, place where the curve <b>begins</b>
PT	Point of Tangency, place where the curve <b>sends</b>
Fixed	editable only be adjusting its geometry points, <b>does not</b> depend on another segment
Floating	attachable only to <b>another fixed</b> or <b>floating</b> segment, dependent on and always <b>attached</b> to the <b>before</b> segment
Free	located <b>between fixed</b> or <b>floating</b> segments, defined by <b>before and</b> <b>after</b> segments
Station	A number representing the horizontal distance between a <b>point</b> on the alignment and the <b>start</b> of the alignment
Station number format	Full + Partial, full=the number of 100 ft intervals, partial=rema- ining distance