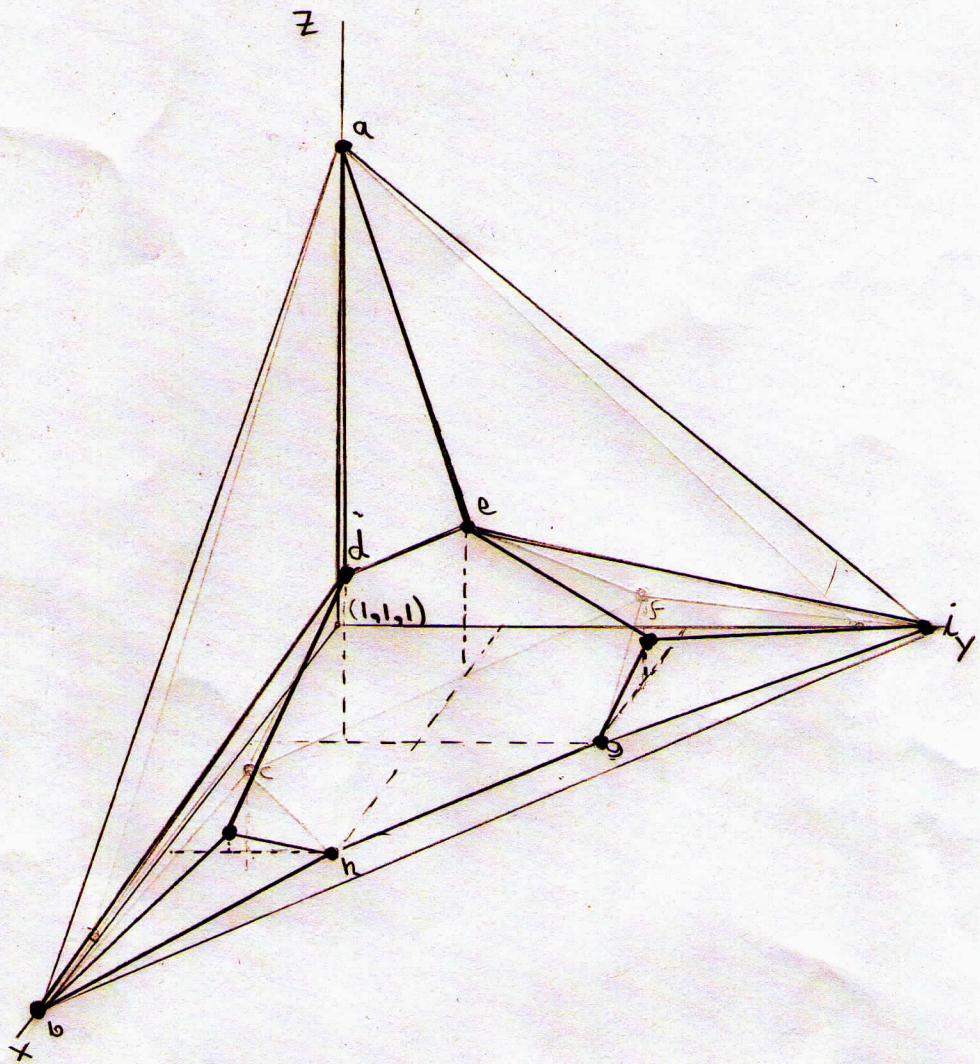
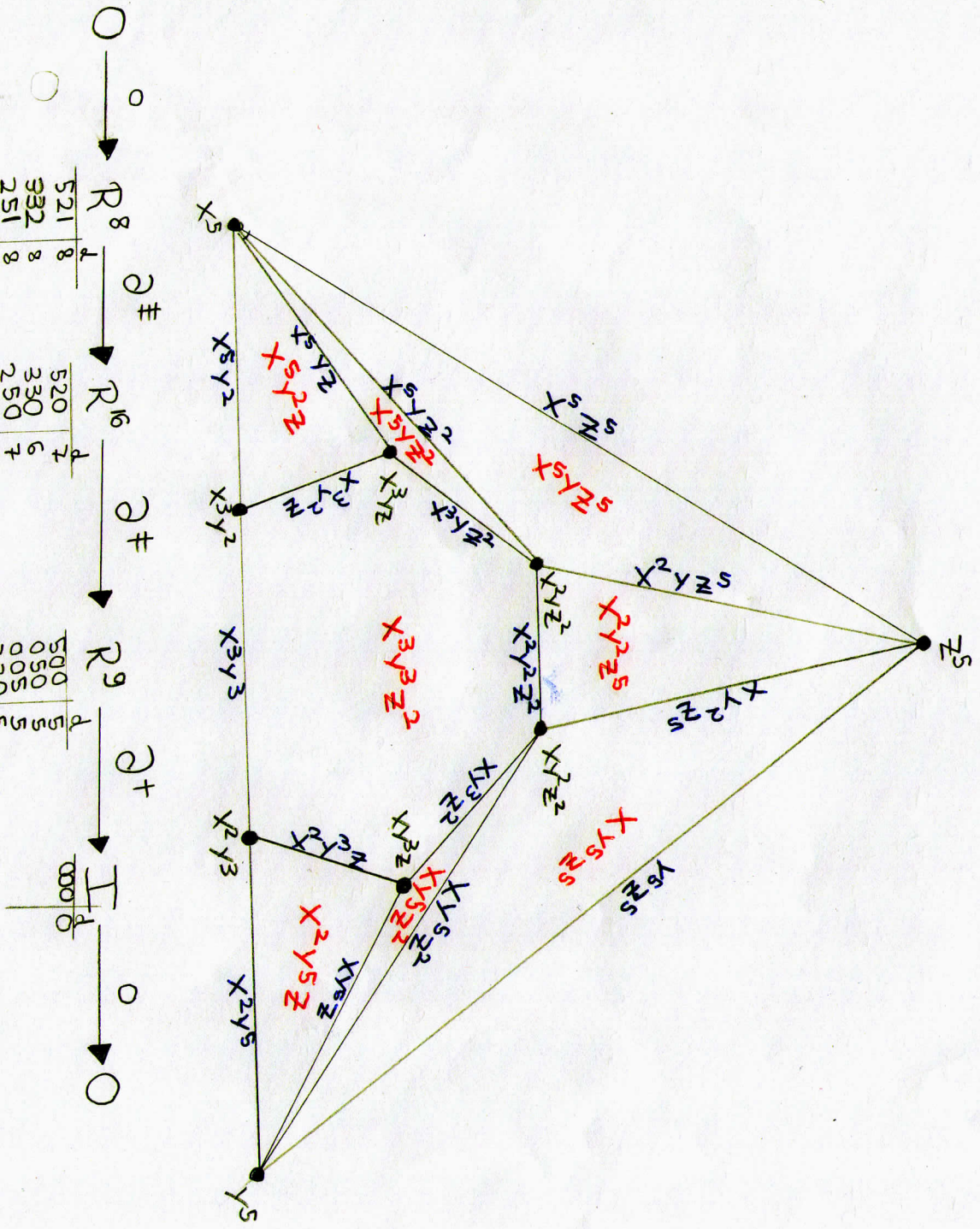


Benjamin Iriarte

Short Homework 3







$R_8$	$d$
521	8
332	8
251	8
512	8
152	8
515	11
225	9
155	11

$R_6$	$d$
520	7
330	7
250	7
511	7
321	6
231	6
151	7
512	8
312	6
152	6
222	6
505	10
215	8
125	8
055	10

$R_9$	$d$
500	5
050	5
005	5
320	5
230	5
311	5
131	5
212	5
122	5



$$H(R/I; t) = \frac{1 - (9t^5) + (6t^6 + 4t^7 + 4t^8 + 2t^{10}) - (5t^8 + t^9 + 2t^{11})}{(1-t)^3}$$

$$= \frac{1 - 9t^5 + 6t^6 + 4t^7 - t^8 - t^9 + 2t^{10} - 2t^{11}}{(1-t)^3}$$

$$= 1 + 3t + 6t^2 + 10t^3 + 15t^4 + 12t^5 + 7t^6 + 4t^7 + 2t^8$$

$$H(I; t) = H(R; t) - H(R/I; t) = \frac{9t^5 - 6t^6 - 4t^7 + t^8 + t^9 - 2t^{10} + 2t^{11}}{(1-t)^3}$$