

analysis

End	Shorter End	Objective	X-coordinates
Arithmetic Torus Cusp	Yes	length	(1, 1, 1, 1, 1, 1, 1, 1)
Hyperbolic Surface Hyperbolic	Yes	length	(1, 1, 6/5, 6/5, 6/5, 6/5, 6/5, 6/5)
Hyperbolic Surface Hyperbolic	No	length	(1, 1, 3/2, 3/2, 3/2, 3/2, 3/2, 3/2)
Cusp	No	length	(1, 1, 8, 1/8, 8, 1/8, 8, 1/8)
Hyperbolic	Yes	length	(1, 1/8, 8, 1/8, 64, 1/8, 8, 1/8)
Hyperbolic	No	length	(1, 1/8, 1, 1, 8, 1, 1, 1)
Special	Yes	length	(1, 1/8, 1/8, 8, 1/8, 8, 1/8, 8)
Special	No	length	(1, 1/8, 8/27, 27/8, 8/27, 27/8, 8/27, 27/8)

End	Shorter End	Objective	X-coordinates
Arithmetic Torus Cusp	Yes	tr	(1, 1, 1, 1, 1, 1, 1, 1)
Hyperbolic Surface Hyperbolic	Yes	tr	(1, 1, 6/5, 6/5, 6/5, 6/5, 6/5, 6/5)
Hyperbolic Surface Hyperbolic	No	tr	(1, 1, 3/2, 3/2, 3/2, 3/2, 3/2, 3/2)
Cusp	No	tr	(1, 1, 8, 1/8, 8, 1/8, 8, 1/8)
Hyperbolic	Yes	tr	(1, 1/8, 8, 1/8, 64, 1/8, 8, 1/8)
Hyperbolic	No	tr	(1, 1/8, 1, 1, 8, 1, 1, 1)
Special	Yes	tr	(1, 1/8, 1/8, 8, 1/8, 8, 1/8, 8)
Special	No	tr	(1, 1/8, 8/27, 27/8, 8/27, 27/8, 8/27, 27/8)

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(A',B')	tr(A')	tr(B')	tr(A'B')	tr(A'(B') ⁽⁻¹⁾)	tr([A',B'])	length(A')	length(B')	length(A'B')
(A, B)	8	8	8	35	3	3.85	3.85	3.85
(A, B)	8.2	8.2	8.2	37.04	4.32	3.91	3.91	3.91
(A, B)	9.03	9.03	9.03	46.07	12.48	4.13	4.13	4.13
(A, B)	20.25	20.25	20.25	367.5	3	5.91	5.91	5.91
(B, A*B)	38.53	19.27	53.02	38.53	9.12	5.98	5.85	9.14
(B, A*B)	12.5	6.25	32.38	12.5	9.12	4.72	3.38	6.7
(A, B)	24.75	24.75	41.62	109.81	16.02	6.85	6.85	6.85
(A, B)	15.03	15.03	20.98	65.33	16.02	5.61	5.61	5.61

(A',B')	tr(A')	tr(B')	tr(A'B')	tr(A'(B') ⁽⁻¹⁾)	tr([A',B'])	length(A')	length(B')	length(A'B')
(A, B)	8	8	8	35	3	3.85	3.85	3.85
(A, B)	8.2	8.2	8.2	37.04	4.32	3.91	3.91	3.91
(A, B)	9.03	9.03	9.03	46.07	12.48	4.13	4.13	4.13
(A, B)	20.25	20.25	20.25	367.5	3	5.91	5.91	5.91
(A*B, B**(-1))	19.27	14.06	73.56	1456.53	9.12	5.85	5.98	7.89
(B**(-1), A*B)	11	6.25	21.5	12.5	9.12	4.72	3.38	5.39
(A, B)	24.75	24.75	41.62	109.81	16.02	6.85	6.85	6.85
(A, B)	15.03	15.03	20.98	65.33	16.02	5.61	5.61	5.61

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$\text{length}(A'(B')^{-1})$	$\text{length}([A',B'])$
7.05	0
7.17	2.19
7.62	4.87
9.57	0
7.89	4.16
5.39	4.16
11.45	6.24
9.7	6.24

$\text{length}(A'(B')^{-1})$	$\text{length}([A',B'])$
7.05	0
7.17	2.19
7.62	4.87
9.57	0
9.14	4.16
6.7	4.16
11.45	6.24
9.7	6.24