

2000 IWYMIC Answers

Individual

Part I

1.	1	2.	$\frac{1}{180}$	3.	231	4.	19950
5.	$\underbrace{166\dots667}_{1998 \text{ terms}}$	6.	(181, 11)	7.	22.5°	8.	5
9.	$\sqrt{101}$	10.	321	11.	2:5	12.	10

Part II

2.	37	3.	10800
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Team

2.	<table border="1" style="margin: auto; border-collapse: collapse;"> <tr><td style="color: red;">83</td><td style="color: red;">82</td><td style="color: red;">2</td><td style="color: red;">79</td><td style="color: red;">21</td></tr> <tr><td style="color: red;">103</td><td style="color: red;">1</td><td style="color: red;">82</td><td style="color: red;">2</td><td style="color: red;">79</td></tr> <tr><td style="color: red;">79</td><td style="color: red;">103</td><td style="color: red;">1</td><td style="color: red;">82</td><td style="color: red;">2</td></tr> <tr><td style="color: red;">2</td><td style="color: red;">79</td><td style="color: red;">103</td><td style="color: red;">1</td><td style="color: red;">82</td></tr> <tr><td style="color: red;">0</td><td style="color: red;">2</td><td style="color: red;">79</td><td style="color: red;">103</td><td style="color: red;">83</td></tr> </table>	83	82	2	79	21	103	1	82	2	79	79	103	1	82	2	2	79	103	1	82	0	2	79	103	83	3.	4001
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103	1	82	2	79																								
79	103	1	82	2																								
2	79	103	1	82																								
0	2	79	103	83																								
4.	C、D、A、E、B	5.	(2, 4, 15) · (2, 5, 9) · (2, 6, 7) · (3, 3, 8) 及(3, 4, 5)																									
6.	Using all the pieces, we construct the following set of ten convex polyhedra. Each is represented in two dimensions by what is known as its Schlegel diagram.																											