

Pre-Calculus 12
Resource Exam B
Answer Key

Cognitive Processes	Weightings	Question Types
N = Knowing	38%	14 = Multiple Choice (MC)
P = Applying	43%	30 = Multiple Choice – no calculator (MN)
Q = Reasoning	19%	6 = Written Response (WR)

Topics	Prescribed Learning Outcomes (PLOs)	Weightings
1. Trigonometry	A	28%
2. Relations and Functions	B	61%
3. Combinatorics	C	11%

Part A: Multiple-Choice Questions (Calculator Permitted)

Question Number	Keyed Response	Cognitive Process	Mark	Topic	PLO	Question Type	Question Source	AI
1.	A	N	1.5	1	A5	MC		5.3
2.	D	N	1.5	1	A2	MC		2.3
3.	D	P	1.5	1	A3	MC		3.5
4.	A	N	1.5	2	B8	MC		8.3
5.	D	N	1.5	2	B9	MC		9.2
6.	C	P	1.5	2	B10	MC		10.8
7.	B	N	1.5	3	C2	MC		1.1
8.	C	Q	1.5	3	C1	MC		1.3
9.	B	P	1.5	3	C4	MC		4.3
10.	A	P	1.5	3	C3	MC		3.2
11.	A	P	1.5	3	C4	MC		4.6
12.	D	P	1.5	2	B12	MC		12.7
13.	C	N	1.5	2	B13	MC		13.6
14.	A	N	1.5	2	B3	MC		3.2

Part B: Multiple-Choice Questions (Calculator NOT Permitted)

Question Number	Keyed Response	Cognitive Process	Mark	Topic	PLO	Question Type	Question Source	AI
15.	C	N	1.5	3	C3	MN		3.5
16.	C	N	1.5	1	A4	MN		4.3
17.	B	N	1.5	1	A2	MN		2.2
18.	D	N	1.5	1	A1	MN		1.8
19.	A	N	1.5	1	A1	MN		1.8
20.	B	P	1.5	1	A5	MN		5.4

Question Number	Keyed Response	Cognitive Process	Mark	Topic	PLO	Question Type	Question Source
21.	B	P	1.5	1	A6	MN	
22.	D	P	1.5	1	A6	MN	6.
23.	D	Q	1.5	1	A4	MN	4.7
24.	C	Q	1.5	1	A5	MN	5.2
25.	D	Q	1.5	2	B10	MN	10.2
26.	A	N	1.5	2	B7	MN	7.4
27.	B	Q	1.5	2	B8	MN	8.3
28.	C	P	1.5	2	B10	MN	10.7
29.	A	Q	1.5	2	B9	MN	9.5
30.	A	N	1.5	2	B2	MN	2.1
31.	D	Q	1.5	2	B5	MN	5.4
32.	C	N	1.5	2	B4, B5	MN	4.1
33.	B	P	1.5	2	B4	MN	4.1
34.	D	P	1.5	2	B6	MN	6.5
35.	B	P	1.5	2	B11	MN	11.2
36.	A	P	1.5	2	B12	MN	12.5
37.	B	N	1.5	2	B1	MN	1.2
38.	D	Q	1.5	2	B1	MN	1.6
39.	D	Q	1.5	2	B1	MN	1.3
40.	C	P	1.5	2	B1	MN	1.1
41.	C	P	1.5	2	B1	MN	1.5
42.	C	N	1.5	2	B14	MN	14.1
43.	B	P	1.5	2	B14	MN	14.1
44.	A	Q	1.5	2	B14	MN	14.3

Question Number	Cognitive Process	Mark	Topic	PLO	Question Type	Question Source	AI
1.	P	4	2	B10	WR		10.5
2.	Q	4	1	A6	WR		6.7
3.	Q	4	1	A6	WR		6.6
4.	P	4	2	B13	WR		13.4
1.	P	4	2	B12	WR		12.2
2.	P	4	2	B6	WR		6.x