

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	Diff
1.	A	N	1.5	1	A5	MC		5.3	E
2.	D	N	1.5	1	A2	MC		2.3	E
3.	D	P	1.5	1	A3	MC		3.5	M
4.	A	N	1.5	2	B8	MC		8.3	M
5.	D	N	1.5	2	B9	MC		9.2	E
6.	C	P	1.5	2	B10	MC		10.8	M
7.	B	N	1.5	3	C2	MC		1.1	E
8.	C	Q	1.5	3	C1	MC		1.3	H
9.	B	P	1.5	3	C4	MC		4.3	M
10.	A	P	1.5	3	C3	MC		3.2	M
11.	A	P	1.5	3	C4	MC		4.6	M
12.	D	P	1.5	2	B12	MC		12.7	M
13.	C	N	1.5	2	B13	MC		13.6	M
14.	A	N	1.5	2	B3	MC		3.2	E

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

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

Question Number	Keyed Response	Cognitive Process	Mark	Topic	PLO	Question Type	Question Source	AI	Diff
21.	B	P	1.5	1	A6	MN		6.6	M
22.	D	P	1.5	1	A6	MN		6.5	M
23.	D	Q	1.5	1	A4	MN		4.7	H
24.	D	Q	1.5	1	A5	MN		5.2	H
25.	D	Q	1.5	2	B10	MN		10.2	M
26.	A	N	1.5	2	B7	MN		7.4	M
27.	B	Q	1.5	2	B8	MN		8.3	H
28.	C	P	1.5	2	B10	MN		10.7	E
29.	A	Q	1.5	2	B9	MN		9.5	H
30.	A	N	1.5	2	B2	MN		2.1	E
31.	D	Q	1.5	2	B5	MN		5.4	H
32.	C	N	1.5	2	B4, B5	MN		4.1	M
33.	B	P	1.5	2	B4	MN		4.1	M
34.	D	P	1.5	2	B6	MN		6.5	M
35.	B	P	1.5	2	B11	MN		11.2	M
36.	A	P	1.5	2	B12	MN		12.5	M
37.	B	N	1.5	2	B1	MN		1.2	E
38.	D	Q	1.5	2	B1	MN		1.6	H
39.	D	Q	1.5	2	B1	MN		1.3	M
40.	C	P	1.5	2	B1	MN		1.1	H
41.	C	P	1.5	2	B1	MN		1.5	M
42.	C	N	1.5	2	B14	MN		14.1	E
43.	B	P	1.5	2	B14	MN		14.1	M
44.	A	Q	1.5	2	B14	MN		14.3	H

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