

Pre-Calculus 12
Resource Exam A
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.	D	N	1.5	1	A5	MC		5.3	E
2.	B	P	1.5	1	A1	MC		1.9	M
3.	B	P	1.5	1	A4	MC		4.11	M
4.	C	N	1.5	2	B7	MC		7.3	E
5.	B	P	1.5	2	B10	MC		10.8	M
6.	D	P	1.5	2	B10	MC		10.7	E
7.	C	N	1.5	3	C1	MC		1.1	E
8.	A	P	1.5	3	C4	MC		4.6	M
9.	B	P	1.5	3	C2	MC		2.1	M
10.	C	P	1.5	3	C3	MC		3.3	M
11.	C	Q	1.5	3	C2	MC		2.6	H
12.	C	P	1.5	2	B11	MC		11.4	M
13.	B	N	1.5	2	B14	MC		14.2	E
14.	D	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	C2	MN		2.2	E
16.	B	M	1.5	1	A4	MN		4.8	M
17.	B	N	1.5	1	A3	MN		3.3	E
18.	D	N	1.5	1	A1	MN		1.5, 1.8	M
19.	A	P	1.5	1	A6	MN		6.7	H
20.	A	P	1.5	1	A2	MN		2.2	M

Question Number	Keyed Response	Cognitive Process	Mark	Topic	PLO	Question Type	Question Source	AI	Diff
21.	D	N	1.5	1	A4	MN			
22.	D	P	1.5	1	A6	MN		6.6	H
23.	A	Q	1.5	1	A5	MN		5.2	M
24.	B	Q	1.5	1	A6	MN		6.6	H
25.	A	N	1.5	2	B10	MN		10.1	E
26.	A	N	1.5	2	B8	MN		8.3	E
27.	C	N	1.5	2	B7	MN		7.3	M
28.	D	Q	1.5	2	B8	MN		8.3	M
29.	A	P	1.5	2	B9	MN		9.4	H
30.	A	N	1.5	2	B6	MN		6.4	M
31.	D	P	1.5	2	B4	MN		4.1	M
32.	C	Q	1.5	2	B4	MN		4.1	M
33.	B	N	1.5	2	B6	MN		6.3	H
34.	B	P	1.5	2	B5	MN		5.2	H
35.	C	N	1.5	2	B12	MN		12.1	E
36.	A	N	1.5	2	B12	MN		12.2	E
37.	C	P	1.5	2	B11	MN		11.5	M
38.	C	Q	1.5	2	B11	MN		11.2	H
39.	C	N	1.5	2	B1	MN		1.5	E
40.	A	P	1.5	2	B1	MN		1.2	M
41.	D	Q	1.5	2	B1	MN		1.8	H
42.	D	Q	1.5	2	B13	MN		13.4	E
43.	A	P	1.5	2	B13	MN		13.3	M
44.	B	N	1.5	2	B13	MN		13.2	E

Question Number	Cognitive Process	Mark	Topic	PLO	Question Type	Question Source	AI	Diff
1.	P	4	1	A5	WR		5.2	M
2.	Q	4	1	A6	WR		6.6	H
3.	P	4	2	B4	WR		4.1	E
4.	P	4	2	B1	WR		1.1	M
1.	P	4	2	B10	WR		10.3	M
2.	P	4	2	B14	WR		14.4	M