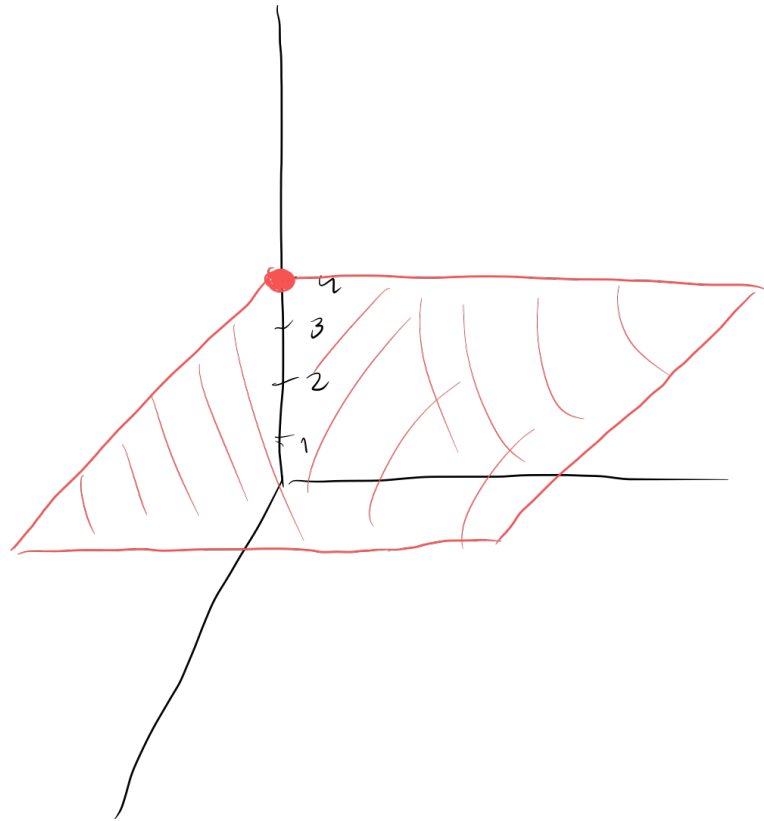
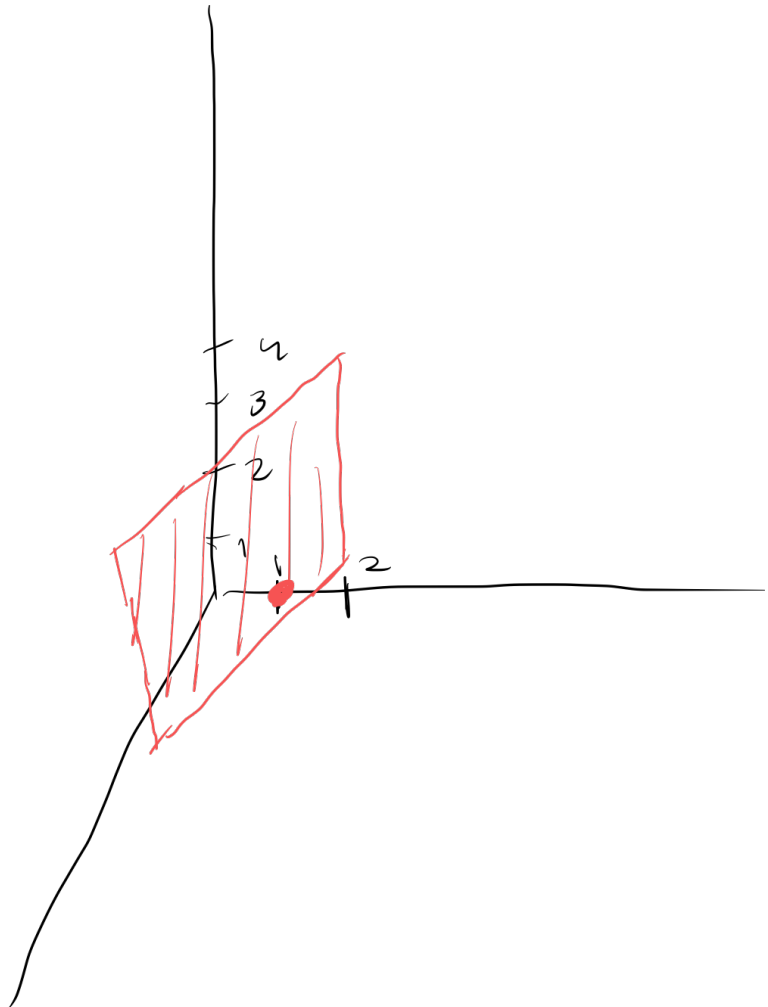


12.1

- 4: B is closest to the yz plane, lies on the xz plane, and is farthest from the xy plane.
- 8: I and IV lie on the graph of $z = 4$.
- 12:



- 14:



- 26:
 - (a) -19°
 - (b) 20 mph
 - (c) 17 mph
 - (d) 16°

- 28:

		Temperature ($^\circ\text{F}$)							
Wind Speed (mph)		35	30	25	20	15	10	5	0
	5	31	25	19	13	7	1	-5	-11
	20	24	17	11	4	-2	-9	-15	-22

- 32: 24.33
- 34: $W \leq 46.2$ kg
- 38: Gravity acts on a 100 kg mass at 7000 km with approx. 820 newtons of force.
- 58: $(-1, -2, -7)$

12.2

- 2: I, II
- 4: II, III
- 6:
 - (a) I
 - (b) V
 - (c) IV
 - (d) II
 - (e) III
- 24:
- 28:
 - (a) V
 - (b) IX
 - (c) VII
 - (d) I
 - (e) VIII
 - (f) II
 - (g) VI
 - (h) III
 - (i) IV
- 30:
- 32:
- 42:

12.3

- 4:
- 6:
- 8:
- 12:
- 16:
- 28:
- 36: