

Question 1 - Trapezoidal Tank

Zoe Broom

January 16, 2009

Civil 132 - GC2

Bottom Width (W)	1 m
Tank Length (L)	2 m
Max Depth (D)	10 m
Depth Increment (n)	0.100 m

Depth (d) (m)	Volume (m ³)
0.000	0
0.100	0.22
0.200	0.48
0.300	0.78
0.400	1.12
0.500	1.5
0.600	1.92
0.700	2.38
0.800	2.88
0.900	3.42
1.000	4
1.100	4.62
1.200	5.28
1.300	5.98
1.400	6.72
1.500	7.5
1.600	8.32
1.700	9.18
1.800	10.08
1.900	11.02
2.000	12
2.100	13.02
2.200	14.08
2.300	15.18
2.400	16.32
2.500	17.5
2.600	18.72
2.700	19.98
2.800	21.28
2.900	22.62
3.000	24
3.100	25.42
3.200	26.88
3.300	28.38
3.400	29.92
3.500	31.5
3.600	33.12

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Depth Increment (n)	0.100 m

Depth (d) (m)	Volume (m ³)
3.700	34.78
3.800	36.48
3.900	38.22
4.000	40
4.100	41.82
4.200	43.68
4.300	45.58
4.400	47.52
4.500	49.5
4.600	51.52
4.700	53.58
4.800	55.68
4.900	57.82
5.000	60
5.100	62.22
5.200	64.48
5.300	66.78
5.400	69.12
5.500	71.5
5.600	73.92
5.700	76.38
5.800	78.88
5.900	81.42
6.000	84
6.100	86.62
6.200	89.28
6.300	91.98
6.400	94.72
6.500	97.5