

Algebra 2 (Ivl2)
Final Exam - Solutions

Day 1

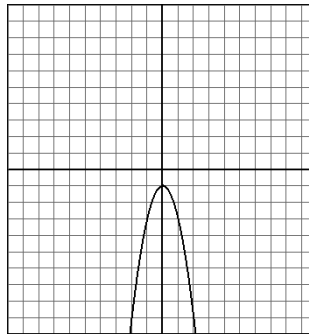
Part A: Multiple Choice

1. B
2. C
3. D
4. D
5. C

Part B: Completion

1. 127.3 feet
2. a. Complete the table below for the given values of x .
 b. On the grid below, make a graph of h .

x	$h(x)$
-2	-9
-1	-3
0	-1
1	-3
2	-9



- c. $x = 2$ or -2
3. a. 15; the profit on 3 articles of clothing is \$15.00
 b. 2 or 6
 c. Maximum profit = \$16.00; Number of pieces = 4
4. 48 different types of phones.

5. a. $m = -1/2$
 b. $b = 3$ or $(0,3)$
 c. $y = -1/2x + 3$
 d. various
 e. various, depending on d.
6. a. (at right)
 b. should have the following:
 min:62, Q1: 71; med:77; Q3:83; max: 90

stem	leaves
3	
4	
5	
6	2 5 8
7	0 2 5 5 6 7 8
8	0 1 2 4 7 7
9	0
10	

Algebra 2 (Ivl2)
Final Exam - Solutions

Day 2

Part A: Multiple Choice

1. D
2. A
3. C
4. C
5. C

Part B: Completion

1. a. $m = -1.5$
b. $y = -1.5x - 2$
2. a. \$81.92
b. (iii)
c. 15 days (day 14: \$163.84; day 15: \$327.68)
3. a. German Club: 93.75 French Club: 88
b. German Club: $M(t) = 48 \cdot (1.25)^t$; French Club: $M(t) = 58 + 10t$
4. A = 56 degrees; B = 90 degrees; b = 25 feet; c = 14 feet