Read each question and choose the best answer. Then write the letter for the answer you have chosen in the blank at the right of each question.

1 Customers who use electricity in off-peak hours in Orangeburg pay a $12 meter fee per month plus $0.0365 per kilowatt-hour. Which equation represents the total cost c of a monthly electric bill as a function of kilowatt-hours k?

1 _____

  A $c = 0.0365k + 12$
  B $c = 0.0365(k + 12)$
  C $c + 12 = 0.0365k$
  D $k = 0.0365(c + 12)$
  E $k = 0.0365c + 12$

2 A graph of $y = -x^2 + c$ is shown on the graphing calculator at the right. Which shows the graph of $y = -x^2 + 1$?

2 _____
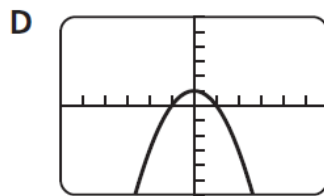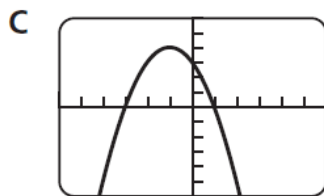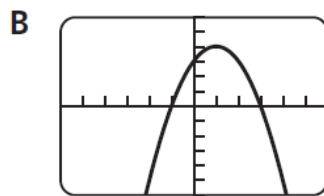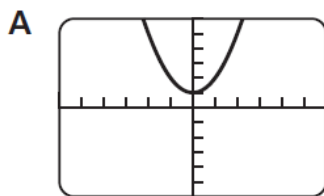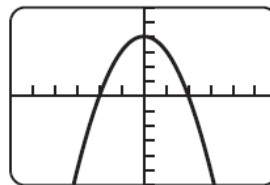
  A

  B

  C

  D

3 Quentin has already spent 13 hours working on a history project about the revolutionary battle at Cowpens, South Carolina, in 1781. He figures that the total project will take no more than 50 hours to complete. Quentin wonders how long it will take him to finish if he works on the project 6 hours per week. How could you represent this situation with an inequality?

3 _____

  A $6w - 13 \leq 50$ **B** $6w + 13 \leq 50$
 **C** $6w + 13 \geq 50$ **D** $6w + 13 < 50$
 **E** $6w + 13 > 50$

Read each question and choose the best answer. Then write the letter for the answer you have chosen in the blank at the right of each question.

1 Customers who use electricity in off-peak hours in Orangeburg pay a $12 meter fee per month plus $0.0365 per kilowatt-hour. Which equation represents the total cost c of a monthly electric bill as a function of kilowatt-hours k? **II.A.3.**

A $c = 0.0365k + 12$
B $c = 0.0365(k + 12)$
C $c + 12 = 0.0365k$
D $k = 0.0365(c + 12)$
E $k = 0.0365c + 12$

1 ___**A**___

2 A graph of $y = -x^2 + c$ is shown on the graphing calculator at the right. Which shows the graph of $y = -x^2 + 1$? **III.A.3.**
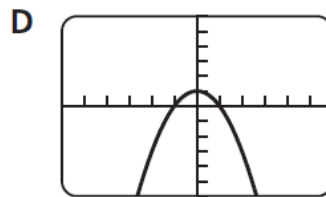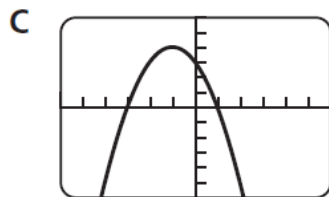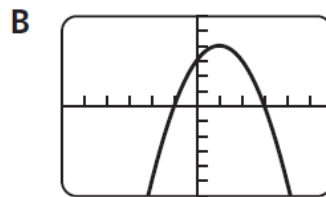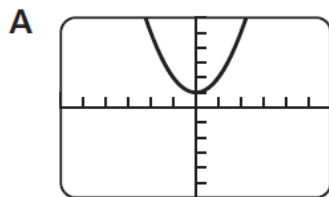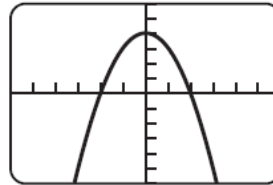
2 ___**D**___

A

B

C

D

3 Quentin has already spent 13 hours working on a history project about the revolutionary battle at Cowpens, South Carolina, in 1781. He figures that the total project will take no more than 50 hours to complete. Quentin wonders how long it will take him to finish if he works on the project 6 hours per week. How could you represent this situation with an inequality? **I.A.3.**

A $6w - 13 \leq 50$ **B** $6w + 13 \leq 50$
C $6w + 13 \geq 50$ **D** $6w + 13 < 50$
E $6w + 13 > 50$

3 ___**B**___