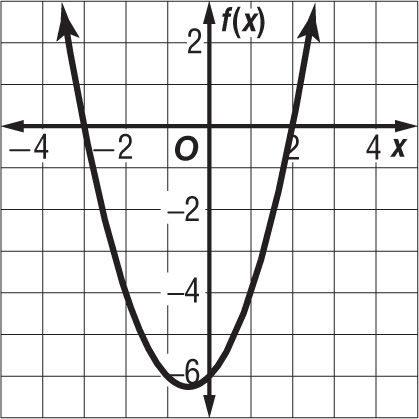
**Chapter 4 Mid-Chapter Practice Test** SCORE \_\_\_\_\_\_\_\_\_\_\_\_\_

*(Lessons 4-1 through 4-4)*

**Part I Write the letter for the correct answer in the blank at the right of each question*.***

** 1.** Which function is graphed?

**A** *f*(*x*) = – *x* – 6

**B** *f*(*x*) = + 5*x* – 6

**C** *f*(*x*) = + *x* – 6

**D** *f*(*x*) =

**2.** By the Zero Product Property, if (3*x* – 1)(*x* + 5) = 0, then .

**3.** Write a quadratic equation with 7 and as its roots. Write the equation in the form *a* + *bx* + *c* = 0, where *a*, *b*, and *c* are integers.

**4.** The current in one part of a series circuit is 3 – 2*j* amps. The current in another part of the circuit is 3 - 6*j* amps. Find the total amps in the circuit.

**5.** Solve + 5*x* = –5. If exact roots cannot be found, state the consecutive integers between which the roots are located.

**A** –2, –3 **C** between –4 and –3; between –2 and –1

**B** –3 **D** between –5 and –4; between –2 and –1

**Part II**

**6.** Solve – 4*x* + 3 = 0 by graphing.

**7.** Determine whether *f*(*x*) = –4 *x* – 9 has a maximum or a minimum value and find that value.

**For Questions 8 and 9, solve each equation by factoring.**

**8.**  – 3*x* = 40 **9.** 3 = -*x*

**10.** Simplify .

**1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

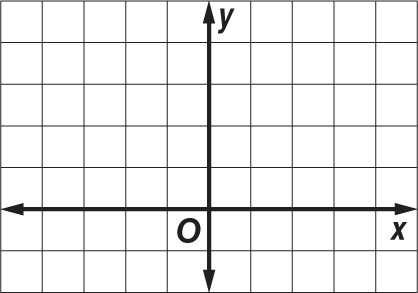
**2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**10.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**