ー2×+3× Chapter 4 Mid-Chapter Practice Test

SCORE

(Lessons 4-1 through 4-4)

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

1. Which function is graphed?

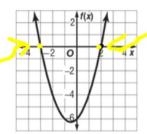
$$A f(x) = x^2 - x - 6$$

B
$$f(x) = x^2 + 5x - 6$$

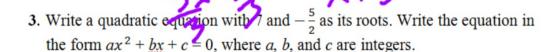
C
$$f(x) = x^2 + x - 6$$

D $f(x) = (x - 2)^2$

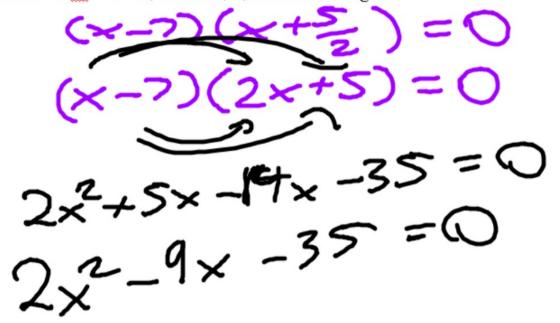
$$D f(x) = (x-2)^2$$



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



3. Write a quadratic equation with 7 and $-\frac{5}{2}$ as its roots. Write the equation in the form $ax^2 + bx + c = 0$, where a, b, and c are integers.



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

(3-2)) +(3-6))

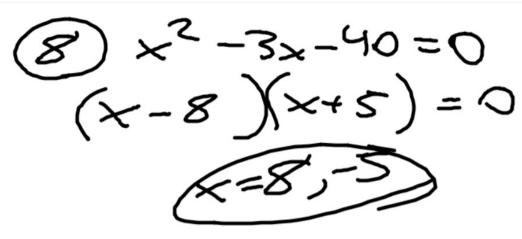
5. Solve $x^2 + 5x = -5$. If exact roots cannot be found, state the consecutive integers between which the roots are located.

Cbetween -4 and -3; between -2 and -1

D between -5 and -4; between -2 and -1

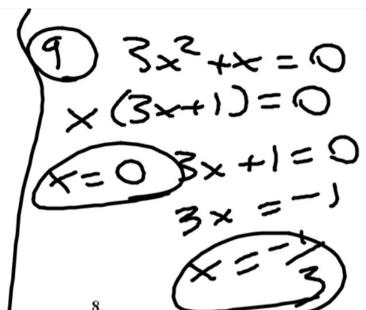
 $\frac{9^{-15} + 5}{16^{-20} + 5} = 1$ $\frac{1 - 5}{5} = \frac{16^{-20} + 5}{25^{-25} + 5} = 5$

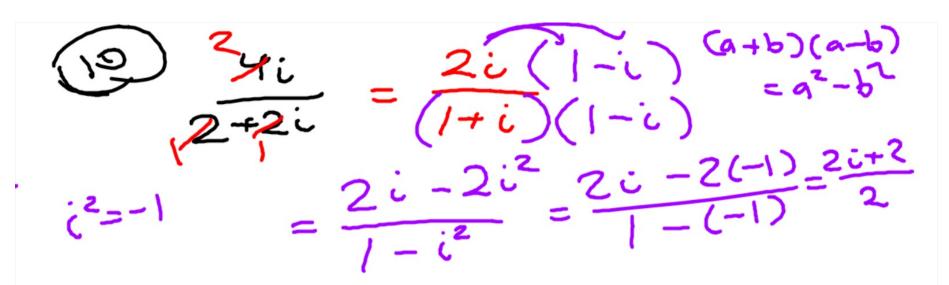
Max: 15



8.
$$x^2 - 3x = 40$$

9.
$$3x^2 = -x$$





8.
$$x^2 - 3x = 40$$

9.
$$3x^2 = -x$$