## SOLVING QUADRATIC EQUATIONS IN THE CALCULATOR

Not every quadratic function has "pretty" x-intercepts that can be found by hand. But, all quadratic functions can be graphed and analyzed in the calculator.


Answer the following. Round answers to the nearest tenth, if necessary.

1. What are the solutions to $x^{2}+4 x-5=0$ ?
2. Find the solutions that satisfy $x^{2}+7 x=-10$.
3. Find the zeros of $f(x)=2 x^{2}+3 x-7$.
4. Find the $x$-intercepts of $k(x)=x^{2}-5 x-14$ graphed below.

5. What is the zero of $r(x)=\frac{-5}{3} x+15$ ?
A. 15
B. -15
C. 9
D. -9
6. Which statement about the quadratic equation below is true?

$$
-4.5 x^{2}+72=0
$$

A. The equation has $x=4$ as its only solution.
B. The equation has no real solutions.
C. The equation has $x=4$ and $x=-4$ as its only solutions.
D. The equation has an infinite number of solutions.
9. A graph of $f(x)=6 x^{2}-11 x+3$ is shown on the grid.

What are the roots of $f$ ?
A. 3
B. 2 and 9
C. $\frac{11}{12}$
D. $\frac{1}{3}$ and $\frac{3}{2}$


