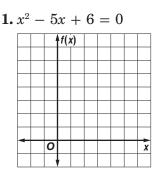
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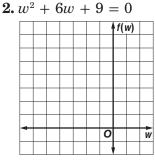
9-2

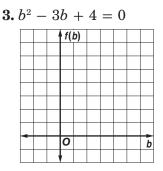
Practice

Solving Quadratic Equations by Graphing

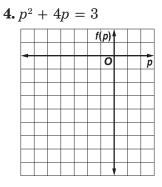
Solve each equation by graphing.



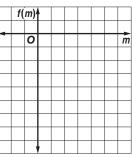




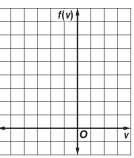
Solve each equation by graphing. If integral roots cannot be found, estimate the roots to the nearest tenth.



5.	$2m^2$	+	5 =	10m
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6. $2v^2 + 8v = -7$



- **7. NUMBER THEORY** Two numbers have a sum of 2 and a product of -8. The quadratic equation $-n^2 + 2n + 8 = 0$ can be used to determine the two numbers.
 - **a.** Graph the related function $f(n) = -n^2 + 2n + 8$ and determine its *x*-intercepts.
 - **b.** What are the two numbers?
- **8. DESIGN** A footbridge is suspended from a parabolic support. The function $h(x) = -\frac{1}{25}x^2 + 9$ represents the height in feet of the support above the walkway, where x = 0 represents the midpoint of the bridge.
 - **a.** Graph the function and determine its *x*-intercepts.
 - **b.** What is the length of the walkway between the two supports?

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