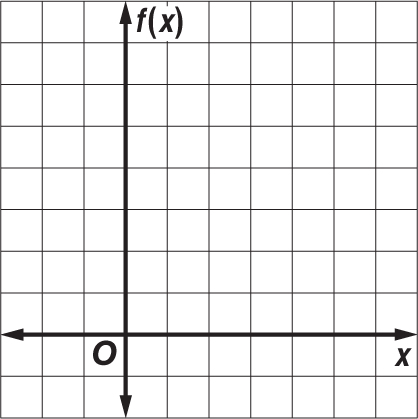
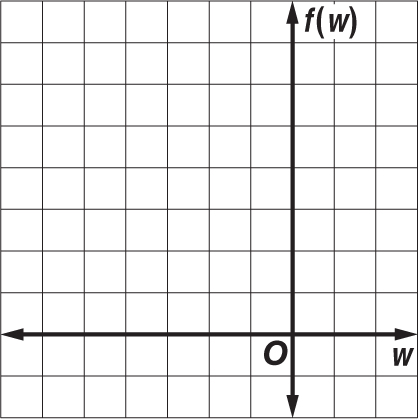
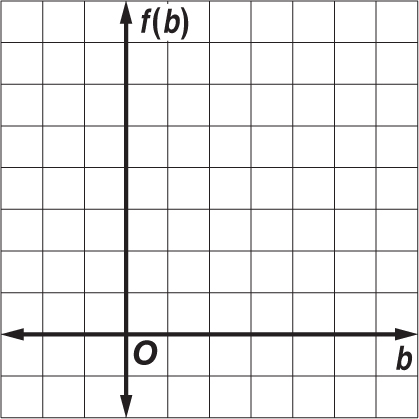
**Practice**

***Solving Quadratic Equations by Graphing***

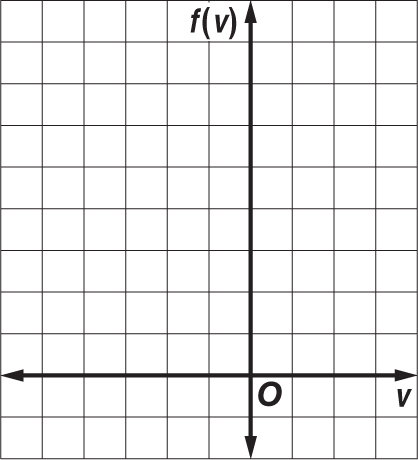
**Solve each equation by graphing.**

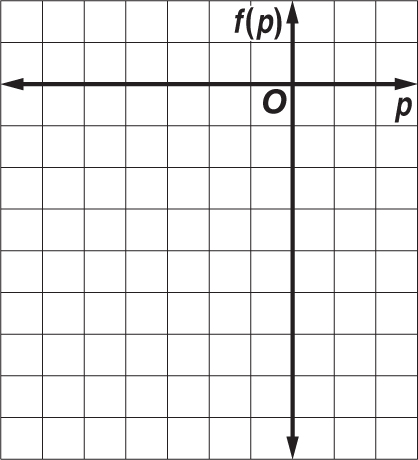
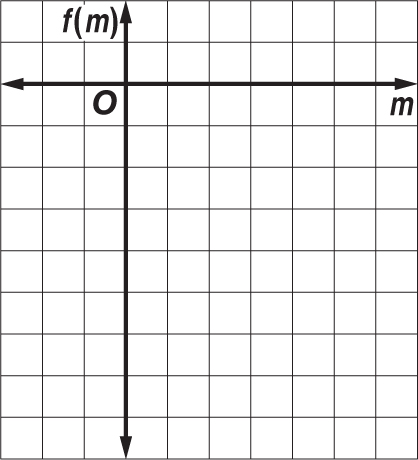
**1.**  – 5*x* + 6 = 0 **2.**  + 6*w* + 9 = 0 **3.**  – 3*b* + 4 = 0

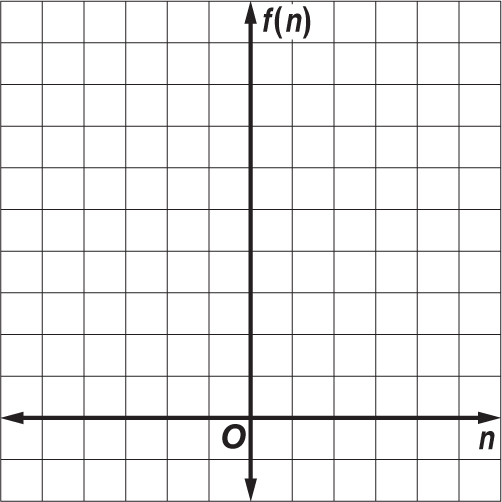
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**Solve each equation by graphing. If integral roots cannot be found, estimate the roots to the nearest tenth.**

**4.**  + 4*p* = 3 **5.** 2 + 5 = 10*m* **6.** 2 + 8*v* = –7

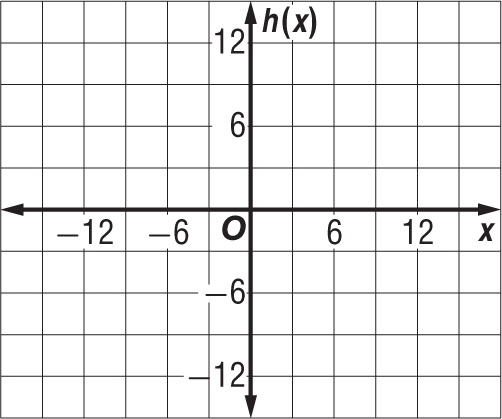
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** 7. NUMBER THEORY** Two numbers have a sum of 2 and a product of –8. The quadratic equation – + 2*n* + 8 = 0 can be used to determine the two numbers.

**a.** Graph the related function *f*(*n*) = – + 2*n* + 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*) = – + 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?