Factoring and Solving Quadratics Self-Test
SOL's A.2c, A.4c

Name_____
Period_____

Factor the following polynomials.

1. $25 - y^2$

2. $7x^2 - 7$

3. $x^2 - 24x + 144$

4. $6x^2 - 24x + 24$

5. $2y^2 + 7y - 15$

Factor and solve the following.

6. $2x(x + 4) = 0$

7. $(x - 7)(x - 3) = 0$

8. $(y + 2)(3y + 5) = 0$

9. $x^2 + 9 = 6x$

10. $x^2 - 9 = 0$

11. $x^2 - 6x = 0$

12. $4s^2 = 36s$

13. $2m^2 + 13m = 24$

14. $x^2 - 6x - 7 = 0$

15. $6x^3 + 29x^2 + 28x = 0$

16. Define a variable and show your equation to solve the following: Find two consecutive odd integers whose product is 143.

17. Use your calculator to find the solutions to $h^3 + h^2 - 4h - 4 = 0$. Make a sketch of the graph below.