

QUIZ REVIEW – Factoring and Solving:

Name: _____

Factor the following: Be sure to factor out common values first.

1. $3x + 18$

2. $x^2 + 10x + 21$

3. $x^2 - 2x - 15$

4. $x^2 + 4x - 5$

5. $x^2 - 81$

6. $16x^2 - 36$

7. $2x^2 + 11x + 15$

8. $25x^8 - 36y^{16}$

Solve the following using any method. (Watch out for standard form)

10. $2x^2 - 16 = 0$

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

12. $x^2 - 3x = -5$

13. $x^2 - 100 = 0$

14. $8x - 24 = 0$

15. $x^2 - 6x + 9 = 0$

15. $4x^2 - 12x + 9 = 0$

16. $\frac{x^2}{6} + 5 = 11$

17. In your own words what is the purpose of the discriminant?

18. In your own words what do the solutions of a quadratic function represent?

19. What are 3 additional terms that represent an x-intercept?