**Algebra Worksheet – Quadratics Review**

**Factor**

1. x2 + 2x– 15 2. x2 - 11x + 12 3. 100*x*2 - 100*x* - 600 4. *x*2 - 18*x* + 81 5. 8*x*2 + 44*x* + 60

6. 9*x*2 - 12*x* + 4 ~~7. 5x~~~~2~~ ~~– 25~~ 8. 3*x*3 - 6*x*2 - 72*x* ~~9.~~ *~~x~~*~~2~~~~-~~~~81~~  ~~10. 18~~*~~a~~*~~2~~ ~~– 50~~

11. *c*2 - 13*c* + 40 12. 5*a*2 + 10*a* + 5 13. 2*b*2 - 11*b* + 5 ~~14. 9~~*~~x~~*~~2~~ ~~- 4~~

**Solve each equation**

15**.** *x*2 -3x - 5 = 0 16. 2*x*2 – 3 = 017. *x*2 + 5*x* - 6 = 0 18. 60*x*2 - 130*x* + 60 = 0 19. 25*x*2 - 1= 0

20. 3*y*2 - *y* - 4 = 021. x3 + 5x2 + 6x = 0 22. 4y2 - 12y + 9 = 0 23. 3x2 + x = 10 24. -2x = 2x2 – 24

25. $∠1 and ∠2 $ are complementary angles. If m$∠1$= *x*2 + 30 and m$∠2$= *x*2 – 2x, find the measures of each angle.