

## Things You Should Be Good At!

Date \_\_\_\_\_ Period \_\_\_\_\_

**Factor each COMPLETELY. Don't forget to look for the GCF first.**

1)  $n^2 - 18n + 81$

2)  $k^2 - 5k - 24$

3)  $p^3 - 4p$

4)  $3v^2 + 6v - 9$

5)  $5x^3 - 5x^2$

6)  $5x^2 + 29x + 20$

7)  $7n^2 + 23n + 6$

8)  $3v^2 - 17v + 10$

9)  $6k^2 - 13k + 6$

10)  $6p^2 + 5p - 6$

**Solve each equation with the QUADRATIC FORMULA.**

11)  $2r^2 - 4r + 7 = 0$

12)  $b^2 - b + 2 = 0$

**Simplify square roots. NO decimal answers.**

13)  $\sqrt{50}$

14)  $\sqrt{72}$

15)  $\sqrt{27}$

16)  $\sqrt{180}$

17)  $\sqrt{20}$

18)  $\sqrt{80}$

19)  $\sqrt{8x^2y^2z}$

20)  $\sqrt{54n^2}$

**Solve each equation by taking square roots. (SQUARE ROOT METHOD)**

21)  $8m^2 = 440$

22)  $n^2 + 7 = 82$

23)  $5b^2 + 4 = 139$

24)  $7k^2 - 4 = 563$