Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Test Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Unit 3 Study Self-Assessment**

***Part 1: Factor the polynomial WITHOUT using your Flipbook/Notes***

1. $r^{3}+27$ 2. $m^{2}-11m+18$

3. $27r^{2}-12t^{2}$ 4. $49a^{2}-42ab+9b^{2}$

5. $x^{4}-16x^{2}$ 6. $2x^{2}-3xz-2xy+3yz$

***Part 2: Solve the quadratic equation WITHOUT using your Flipbook/Notes***

7. by factoring $12x^{2}-5x=2$

8. by completing the square $x^{2}-20x=4$

9. by using the quadratic formula $6=3t^{2}+2t$