Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Acc Geom/Adv Alg

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_ Benchmark 2 Review B

**Factor Completely.**

1. $x^{4}-16$ 2) $54x^{2}-3x-2$

3) $-x^{6}-10x^{5}-21x^{4}$ 4) $12x^{4}-111x^{2}+189$

 5) $32x^{3}-80x^{2}+50x$ 6) $x^{14}-12x^{7}+27$

**Write a polynomial equation with the following roots.**

 7) $-\frac{1}{4}, 0, \& 6$ 8) $3 mult of 2 \&-7$

**Solve the following using the method of your choice: factoring, completing the square, square root method, or quadratic formula.**

9) $\frac{3}{4}\left(x-3\right)^{2}=9$ 10) $16x^{2}+48x+36=0$

 11) $-3x^{2}+11x-10=0$ 12) $-x^{5}=-4x^{3}-45x$

13) $81x^{2}+90x=-25$ 14) $x^{2}+4=-3x$

15) $12x^{2}-27=0$ 16) $x^{5}+12x^{4}+11x^{3}=0$