Greatest Common Factor

GCF: The largest number that will divide into <u>all</u> the terms AND the variable(s) that occur in <u>all</u> the terms (raised to the smallest power).

Find the GCF of the following polynomials:

1. $14x^3 - 21x^2 + 28x^4$

2. $-16a + 24b + 8a^2$

Factor the following:

3. $8x^2 + 18xy + 2x$

4. $-7x^4y - 35x^2y^2 - 14x^2y^5$

5. $7y(3x+9) - 14z(3x+9)$

6. $15x(y-3) - 5z(3-y)$