Greatest Common Factor

GCF: The largest number that will divide into all the terms AND the variable(s) that occur in all 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. $15x(y - 3) - 5z(3 - y)$