Factoring Polynomials #1-10

Factor the following polynomials using factoring by grouping. Factor each polynomial completely.

1. *x*3−4*x*2+3*x*−12
2. *x*3+6*x*2−9*x*−54
3. 3*x*3−4*x*2+15*x*−20
4. 2*x*4−3*x*3−16*x*+24
5. 4*x*3+4*x*2−25*x*−25
6. 4*x*3+18*x*2−10*x*−45
7. 24*x*4−40*x*3+81*x*−135
8. 15*x*3+6*x*2−10*x*−4
9. 4*x*3+5*x*2−100*x*−125
10. 3*x*3−2*x*2+12*x*−8