Factoring Special Polynomials

Factor each polynomial by using the sum or difference of cubes.

1.  *x*3 − 27

2.  64 + *x*3

3.  32*x*3 − 4

4.  64*x*3 + 343

5.  512 − 729*x*3

6.  125*x*4 + 8*x*

7.  648*x*3 + 81

8.  5*x*6 − 135*x*3