**Sums and Differences of Cubes Homework**

1. The expression 8x6y + 24x3y

has the following two factors:

3x3y and 3x + 2.

What is the third factor?

2. Completely factor 128m6n2 – 2m3n5.

Solutions:

1. 9x2 – 6x + 4

2. 2m3n2(4m – n3)(16m2 + 4mn3 + n6)