Math 19 Quiz # 1 Name Key

1. A phone plan has monthly charges as follows: a flat-rate connection fee of $30 , plus $15 for each phone in the family, as described by the expression:

   30 + 15p

   a) What is the constant? 30

   b) What is the coefficient? 15

   c) If a family has 5 phones, what is the monthly charge?

   $30 + 15(5) = 30 + 75 = \$105$

2. Evaluate the expression $7ab^2$ for a = 5, b = - 2

   $7(5)(-2)^2 = 7(5)(4) = 140$

3. Simplify: $14x^2 - 6x - x^2 + 19x$

   $= (14-1)x^2 + (-6+19)x$

   $13x^2 + 13x$