Factoring 4 7/23

1) What is the value of c2 - d2if c + d = 7 and c - d = -2?

1. -14
2. -5
3. 5
4. 14
5. 45

2) Which of the following is the complete factorization of 6a3b + 3a2b3?

1. 6a3b3
2. 9a5b4
3. 3ab(2a2 + ab2)
4. 3a2b(2a + b2)
5. (6a3b)(3a2b3)

3) Which of the following is a factor of x2 + 3x - 18?

1. X + 2
2. X + 3
3. X + 6
4. X + 9
5. X + 18

4) The binomial x - 3 is NOT a factor of which of the following trinomials?

1. 2x2 - x - 3
2. 2x2 - 5x - 3
3. 2x2 - 8x + 6
4. 3x2 - 6x - 9
5. 3x,2- 10x + 3

5) For what value of n is 4x2 + 20x + n2 = (2x + n)2 true for any real number x?

1. 4
2. 5
3. 8
4. 10
5. 25

6) What is the factored form of x2 + 2/3x + 1/2x + 2/6?

1. (x + ⅓)(x + ½)
2. (x + ½)(x + ⅔)
3. (x + ⅔)(x + ⅙)
4. (x + 2)(x + ⅓)
5. (x + ⅓)(x + ⅔)