Math 10: Polynomials 5.7 **Factoring by Guess and Check *ax*2 + *bx* + *c , a* ≠ 1**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_\_\_\_

1. **Factor, if possible.**
2.  b.  c. 

d.  e.  f. 

1. **Factor, if possible.**
2.  b.  c. 

d.  e.  f. 

1. **Factor, if possible.**

a.  b.  c. 

d.  e.  f. 

g.  h.  i. 

1. **A rectangular garden has an area of square meters.**

**a. Write the area as the product of two binomials**

**b. Write an expression for the perimeter of the garden.**

**c. Determine the perimeter given *a* = 5.**

1. **Factor, if possible.**

a.  b.  c. 

1. **List all values of *k* such that each trinomial can be factored over the integers.**

a.  b. 

**Answers:**

1a.  b.  c.  d.  e.  f. *not factorable*

2a.  b.  c.  d.  e.  f. 

3a.  b.  c.  d.  e.  f. 

g.  h*. not factorable* i. 

4a.  b.  c. 52 m2 5a.  b.  c.  6a.  b. 