Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Factoring special quadratic expressions.

1) List the perfect squares that are less than 200.

Factor the following quadratics, if possible.

2) $x^{2}-1$ (3) $x^{2}+4x+4$ (4) $16x^{2}-24x+9$

5) $-3x^{2}+36x-108$ (6) $144x^{2}-49$ (7) $196x^{2}+140x+25$

8) $100x^{2}+1$ (9) $162x^{2}+72x+8$ (10) $225-x^{2}$

11) $121-132x+36x^{2}$ (12) $5x^{2}+100x-500$ (13) $15x^{2}+27x-9$