

Name : _____

Score : _____

Teacher : _____

Date : _____

Factoring Quadratics

Factor each completely. If non-factorable, write "Non-factorable".

1) $25m^2 - 25$

6) $n^4 - 49n^2$

2) $25m^2 - 20m + 4$

7) $q^4 + 4q^3 + 4q^2$

3) $z^4 - 64z^2$

8) $8k^2 + 16k + 8$

4) $12n^4 - 48n^3 + 48n^2$

9) $4x^2 - 28x + 49$

5) $16c^2 - 16$

10) $q^4 - 64q^2$



Name : _____

Score : _____

Teacher : _____

Date : _____

Factoring Quadratics

Factor each completely. If non-factorable, write "Non-factorable".

1) $25m^2 - 25$

$$25(m - 1)(m + 1)$$

6) $n^4 - 49n^2$

$$n^2(n - 7)(n + 7)$$

2) $25m^2 - 20m + 4$

$$(5m - 2)^2$$

7) $q^4 + 4q^3 + 4q^2$

$$q^2(q + 2)^2$$

3) $z^4 - 64z^2$

$$z^2(z - 8)(z + 8)$$

8) $8k^2 + 16k + 8$

$$8(k + 1)^2$$

4) $12n^4 - 48n^3 + 48n^2$

$$12n^2(n - 2)^2$$

9) $4x^2 - 28x + 49$

$$(2x - 7)^2$$

5) $16c^2 - 16$

$$16(c - 1)(c + 1)$$

10) $q^4 - 64q^2$

$$q^2(q - 8)(q + 8)$$

