

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

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## Factoring Quadratics

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

1)  $16q^4 - 49q^2$

6)  $m^2 - 49$

2)  $25r^2 - 36$

7)  $n^2 - 36$

3)  $16h^4 - 4h^2$

8)  $w^4 - 16w^2$

4)  $9x^4 - 16x^2$

9)  $9q^4 - 9q^2$

5)  $4x^2 - 36$

10)  $h^4 - 4h^2$



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## Factoring Quadratics

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

1)  $16q^4 - 49q^2$   
 $q^2(4q - 7)(4q + 7)$

6)  $m^2 - 49$   
 $(m - 7)(m + 7)$

2)  $25r^2 - 36$   
 $(5r - 6)(5r + 6)$

7)  $n^2 - 36$   
 $(n - 6)(n + 6)$

3)  $16h^4 - 4h^2$   
 $4h^2(2h - 1)(2h + 1)$

8)  $w^4 - 16w^2$   
 $w^2(w - 4)(w + 4)$

4)  $9x^4 - 16x^2$   
 $x^2(3x - 4)(3x + 4)$

9)  $9q^4 - 9q^2$   
 $9q^2(q - 1)(q + 1)$

5)  $4x^2 - 36$   
 $4(x - 3)(x + 3)$

10)  $h^4 - 4h^2$   
 $h^2(h - 2)(h + 2)$

