

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

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

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

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

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## Factoring Quadratics

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

1)  $d^4 - 4d^2$

6)  $b^2 + 8b + 16$

2)  $n^2 - 16$

7)  $y^4 - 10y^3 + 41$

3)  $h^4 + 10h^3 + 25h^2$

8)  $w^4 - 10w^3 + 25w^2$

4)  $m^4 + 12m^3 + 36m^2$

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

5)  $d^2 - 10d + 25$

10)  $z^4 - 31$



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

1)  $d^4 - 4d^2$   
 $d^2(d - 2)(d + 2)$

6)  $b^2 + 8b + 16$   
 $(b + 4)^2$

2)  $n^2 - 16$   
 $(n - 4)(n + 4)$

7)  $y^4 - 10y^3 + 41$   
Non-Factorable

3)  $h^4 + 10h^3 + 25h^2$   
 $h^2(h + 5)^2$

8)  $w^4 - 10w^3 + 25w^2$   
 $w^2(w - 5)^2$

4)  $m^4 + 12m^3 + 36m^2$   
 $m^2(m + 6)^2$

9)  $d^4 - 16d^2$   
 $d^2(d - 4)(d + 4)$

5)  $d^2 - 10d + 25$   
 $(d - 5)^2$

10)  $z^4 - 31$   
Non-Factorable

