

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

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

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

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

## Factoring Quadratics

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

1)  $h^2 + 6h + 9$

6)  $m^4 + 16m^3 + 64m^2$

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

7)  $6p^4 - 36p^3 + 54p^2$

3)  $9y^2 + 36y + 36$

8)  $p^4 + 14p^3 + 49p^2$

4)  $25b^4 + 60b^3 + 36b^2$

9)  $32n^4 + 32n^3 + 8n^2$

5)  $100s^4 - 320s^3 + 256s^2$

10)  $s^2 - 14s + 49$



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

1)  $h^2 + 6h + 9$   
 $(h + 3)^2$

6)  $m^4 + 16m^3 + 64m^2$   
 $m^2(m + 8)^2$

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

7)  $6p^4 - 36p^3 + 54p^2$   
 $6p^2(p - 3)^2$

3)  $9y^2 + 36y + 36$   
 $9(y + 2)^2$

8)  $p^4 + 14p^3 + 49p^2$   
 $p^2(p + 7)^2$

4)  $25b^4 + 60b^3 + 36b^2$   
 $b^2(5b + 6)^2$

9)  $32n^4 + 32n^3 + 8n^2$   
 $8n^2(2n + 1)^2$

5)  $100s^4 - 320s^3 + 256s^2$   
 $4s^2(5s - 8)^2$

10)  $s^2 - 14s + 49$   
 $(s - 7)^2$

