

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

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

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

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

## Factoring Quadratics

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

1)  $6s^4 - 24s^3 + 24s^2$

6)  $32d^2 - 80d + 50$

2)  $2p^2 - 4p + 2$

7)  $16d^2 - 81$

3)  $48n^4 + 168n^3 + 147n^2$

8)  $25g^4 - 81g^2$

4)  $32g^4 - 48g^3 + 18g^2$

9)  $25k^4 - 36k^2$

5)  $25n^4 - 36n^2$

10)  $27g^2 + 126g + 147$



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## Factoring Quadratics

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

1)  $6s^4 - 24s^3 + 24s^2$   
 $6s^2(s - 2)^2$

6)  $32d^2 - 80d + 50$   
 $2(4d - 5)^2$

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

7)  $16d^2 - 81$   
 $(4d - 9)(4d + 9)$

3)  $48n^4 + 168n^3 + 147n^2$   
 $3n^2(4n + 7)^2$

8)  $25g^4 - 81g^2$   
 $g^2(5g - 9)(5g + 9)$

4)  $32g^4 - 48g^3 + 18g^2$   
 $2g^2(4g - 3)^2$

9)  $25k^4 - 36k^2$   
 $k^2(5k - 6)(5k + 6)$

5)  $25n^4 - 36n^2$   
 $n^2(5n - 6)(5n + 6)$

10)  $27g^2 + 126g + 147$   
 $3(3g + 7)^2$

