

# Mr. Ward Answer Key

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8.  $1 - 4x^2$   
 $(1 - 2x)(1 + 2x)$

9.  $s^2 - 4^2$   
 $(s + 4)(s - 4)$

10.  $81x^2 - 1$   
 $(9x + 1)(9x - 1)$

11.  $4x^4 - 9y^2$   
 $(2x^2 + 3y)(2x^2 - 3y)$

12.  $x^8 - 50$   
 Not a Difference  
 of Squares

13.  $x^6 - 9$   
 $(x^3 + 3)(x^3 - 3)$

21.  $1^2 - 4x^2$   
 $(1 - 2x)(1 + 2x)$

22.  $25m^2 - 16n^2$   
 $(5m + 4n)(5m - 4n)$

23.  $4x - 9y$   
 Not a Difference  
 of Squares

24.  $49p^{12} - 9q^6$   
 $(7p^6 + 3q^3)(7p^6 - 3q^3)$

25.  $9^2 - 100x^4$   
 $(3 + 10x^2)(3 - 10x^2)$

26.  $x^3 - y^3$   
 Not a Difference  
 of Squares

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1.  $2x^2 + 9x + 10$   
 $(x + 2)(2x + 5)$

2.  $5x^2 + 31x + 6$   
 $(x + 6)(5x + 1)$

3.  $5x^2 + 7x - 6$   
 $(5x - 3)(x + 2)$

4.  $6x^2 + 37x + 6$   
 $(x + 6)(6x + 1)$

5.  $3x^2 - 14x - 24$   
 $(3x + 4)(x - 6)$

6.  $6x^2 + x - 2$   
 $(2x - 1)(3x + 2)$