

HW #5 - Due Tuesday, 9/15:
5.1 #63-85 odd

HW #6 - Due Wednesday, 9/16:
5.2 #3-7odd, 15-25odd, 35-49odd

HW #7 - Due Tuesday, 9/22:
5.3 #25-29odd, 43-51odd, 61-67odd, 89-97odd, 109-117odd

HW #8 - Due Friday, 9/25:
5.4 #19-25 odd; 27-43 odd; 55-61 odd
5.5 #21-47 odd

HW #9 - Due Tuesday, 9/29:
5.5 #99-125 odd
5.6 #3-131 odd

5.7 #35-49 odd, 51-57 odd, 61-75odd

Test 3 - Tuesday, 9/29

Ch 5 - Exponential Expressions & Polynomials

5.1 - Exponential Expressions

5.2 - Intro to Polynomials

5.3 - Multiplying Polynomials

5.4 - Dividing Polynomials

5.5 - Factoring

5.6 - Special Factoring

5.7 - Solving Equations by Factoring

11. Factor completely. Circle/box your final answer.

$$64x^3 + 8$$

12. Factor completely. Circle/box your final answer.

$$8x^4 - 74x^2 + 18$$

**additional recommended preparation:*

Ch 5 Review pp. 320-321 #1-46

Cumulative Review pp. 323-324

11. Factor completely. Circle/box your final answer.

$$64x^3 + 8$$

$$8(8x^3 + 1) = 8((2x)^3 + 1^3)$$

$$= \boxed{8(2x+1)(4x^2 - 2x + 1)}$$

12. Factor completely. Circle/box your final answer.

$$8x^4 - 74x^2 + 18$$

$$2(4x^4 - 37x^2 + 9)$$

$$2(4x^4 - 36x^2 - 1x^2 + 9)$$

$$2[4x^2(x^2 - 9) - 1(x^2 - 9)]$$

$$2(x^2 - 9)(4x^2 - 1)$$

$$2[x^2 - 3^2][(2x)^2 - 1^2]$$

$$\boxed{2(x-3)(x+3)(2x-1)(2x+1)}$$

$$\begin{matrix} ab - b \\ b(a-1) \end{matrix}$$