

HW green text p. 453  
249 # 3-17 (odds) & p. 463  
# 3-27 (1st col.)

p. 453 DOTS

$$3) a^2 - 4 \\ (a+2)(a-2)$$

$$5) 9 - x^2 \\ (3+x)(3-x)$$

$$7) 16a^2 - b^2 \\ (4a+b)(4a-b)$$

$$9) d^2 - 4c^2 \\ (d+2c)(d-2c)$$

$$11) 25 - s^4 \\ (5+s^2)(5-s^2)$$

$$*13) (w^2 - \frac{1}{64}) \\ (w + \frac{1}{8})(w - \frac{1}{8})$$

$$*15) 0.04 - 49r^2 \\ (0.2+7r)(0.2-7r)$$

$$17) 0.81 - y^2 \\ (0.9+y)(0.9-y)$$

$$24) A_{\text{big sq}} - A_{\text{small sq}} = \text{Shaded Region} \\ c^2 - d^2 \\ (c+d)(c-d)$$

$$3.) \quad 2a^2 - 2b^2 \\ 2(a^2 - b^2) \\ 2(a+b)(a-b)$$

$$27.) \quad 2a^2b + 7ab + 3b \\ b(2a^2 + 7a + 3) \\ b(2a+1)(a+3)$$

$$6.) \quad st^2 - 9s \\ s(t^2 - 9) \\ s(t+3)(t-3)$$

$$9.) \quad 18m^2 - 8 \\ 2(m^2 - 4) \\ 2(m+2)(m-2)$$

grouping

$$(2a^2 + 1a + 1a + 3) \\ 2a(a+3) + 1(a+3) \\ (2a+1)(a+3)$$

	a	c
4	1	6
7	1	3
b		

$$12.) \quad z^3 - z \\ z(z^2 - 1) \\ z(z+1)(z-1)$$

$$15.) \quad y^4 - 81 \\ (y^2 + 9)(y^2 - 9) \\ (y^2 + 9)(y+3)(y-3)$$

$$18.) \quad 4r^2 - 4r - 48 \\ 4(r^2 - r - 12) \leftarrow \text{Factor the} \\ 4(r-4)(r+3) \text{ trinomial}$$

$$21.) \quad d^3 - 8d^2 + 16d \\ d(d^2 - 8d + 16) \\ d(d-4)(d-4)$$

$$24.) \quad a^4 - 10a^2 + 9 \\ (a^2 - 9)(a^2 - 1) \\ (a+3)(a-3)(a+1)(a-1)$$