

Name: Key Show work needed to justify your answer. Date: _____

HW # 59: Algebra 1 - Standard 37 - Special Products

5 points

Find each product.

$$2. (b^1 - 6)(b^1 - 6)$$

$$b^2 - 6b - 6b + 36$$

$$\boxed{b^2 - 12b + 36}$$

$$3. (h + 7)^2$$

$$(h+7)(h+7)$$

$$h^2 + 7h + 7h + 49$$

$$\boxed{h^2 + 14h + 49}$$

$$5. (8 - m)^2$$

$$(8-m)(8-m)$$

$$64 - 8m - 8m + m^2$$

$$\boxed{64 - 16m + m^2}$$

$$6. (9 - 2y)^2$$

$$(9-2y)(9-2y)$$

$$81 - 18y - 18y + 4y^2$$

$$\boxed{81 - 36y + 4y^2}$$

$$7. (2b + 3)^2$$

$$(2b+3)(2b+3)$$

$$4b^2 + 6b + 6b + 9$$

$$\boxed{4b^2 + 12b + 9}$$

$$8. (5t - 2)^2$$

$$(5t-2)(5t-2)$$

$$25t^2 - 10t - 10t + 4$$

$$\boxed{25t^2 - 20t + 4}$$

$$9. (8h - 4n)^2$$

$$(8h-4n)(8h-4n)$$

$$64h^2 - 32hn - 32hn + 16n^2$$

$$\boxed{64h^2 - 64hn + 16n^2}$$

$$10. (4m - 5n)^2$$

$$(4m-5n)(4m-5n)$$

$$16m^2 - 20mn - 20mn + 25n^2$$

$$16m^2 - 40mn + 25n^2$$

$$15. (u + 3)(u - 3)$$

$$u^2 - 3u + 3u - 9$$

$$\boxed{u^2 - 9}$$

$$16. (b^1 + 7)(b^1 - 7)$$

$$b^2 - 7b + 7b - 49$$

$$\boxed{b^2 - 49}$$

$$17. (2 + x)(2 - x)$$

$$4 - 2x + 2x - x^2$$

$$\boxed{4 - x^2}$$

$$18. (4 - x)(4 + x)$$

$$16 + 4x - 4x - x^2$$

$$\boxed{16 - x^2}$$

$$19. (2q + 5r)(2q - 5r)$$

$$4q^2 - 10qr + 10qr - 25r^2$$

$$\boxed{4q^2 - 25r^2}$$

$$20. (3a^2 + 7b)(3a^2 - 7b)$$

$$9a^4 - 21a^2b + 21a^2b - 49b^2$$

$$\boxed{9a^4 - 49b^2}$$