

SM2-A HW #2-15 (Unit 2 Review #2)

Date _____ Period _____

Simplify.

1) $(8 + 2i) - (-4 - 8i)$

2) $(8 + 2i)(-6 - 4i)$

Find each product.

3) $(8n + 6)(3n - 3)$

4) $(7n + 4)(8n - 3)$

Simplify. Your answer should contain only positive exponents.

5) $2ab^4 \cdot 4a^3b^3$

6) $3xy^{-2} \cdot 2x^4y^3 \cdot 2x^{-1}y^3$

7) $(3mn^{-2})^2$

8) $(4xy^2)^3$

9) $\frac{2y^4}{4x^3y^{-2}}$

10) $\frac{4y^4}{3x^2y^{-4}}$

11) $3^{-3} \cdot 3^3$

12) $(4^{-4})^{-1}$

Simplify each difference.

13) $(2 - 8p^4) - (2p^4 + 8)$

14) $(3 + 2v^3 + 6v^2) - (4v^3 - 5 + 4v^2)$

Find each product.

15) $4x(8x - 8)$

16) $(8x + 5)(8x^2 + 3x - 7)$

17) $(2x + 6)^2$

18) $(x + 3)^2$

Factor each completely.

19) $x^2 + 7x - 8$

20) $x^2 - 3x - 28$

21) $2n^2 + n - 10$

22) $5n^2 - 21n - 20$