

SM2-A HW #2-14 (Unit 2 Review #1)

Date _____ Period _____

Simplify.

1) $(-7 - 3i) - (6 + 6i)$

2) $(6 - 4i)(7 - 6i)$

Find each product.

3) $(8x + 4)(7x - 2)$

4) $(7k - 5)(3k - 5)$

Simplify. Your answer should contain only positive exponents.

5) $2x^4 y^{-2} \cdot 4x^{-2} \cdot x^{-2} y^4$

6) $2x^4 \cdot 4x^2 y^2$

7) $(4uv^3)^3$

8) $(2x^2 y^{-1})^3$

9) $\frac{a^{-2} b^{-2}}{a^2 b^2}$

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

11) $4^4 \cdot 4^2$

12) $(2^3)^2$

Simplify each difference.

13) $(5k^2 + 6k^3) - (3k^3 + 6k^2)$

14) $(2n - 5n^3 - 2n^2) - (6n^2 - 3n^3 + 6n)$

Find each product.

15) $5x(4x + 6)$

16) $(8p - 5)(7p^2 + p - 5)$

17) $(5x - 8)^2$

18) $(6v + 3)^2$

Factor each completely.

19) $r^2 + 3r - 28$

20) $x^2 + x - 30$

21) $2n^2 + 11n + 12$

22) $3a^2 - 7a - 6$