

SM2-A HW #4-12 (Prior Weak Areas)

Date _____ Period _____

Simplify.

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

2) $(-2 - 5i)(7 - 2i)$

Simplify. Your answer should contain only positive exponents.

3) $a^{-1} \cdot 2a^4b^{-3}$

4) $2u^2v^{-2} \cdot 3uv^4$

5) $(3xy^{-2})^{-1}$

6) $(4uv^{-3})^3$

7) $\frac{m^4n^{-1}}{2m^{-1}n^{-4}}$

8) $\frac{4mn^4}{3m^{-3}n^2}$

Simplify each difference.

9) $(8x^3 + 3x^2) - (4x^3 - 7)$

10) $(a^2 + 7 + 3a^4) - (3 + 5a^2 + 2a^4)$

Factor each completely.

11) $n^2 - 13n + 42$

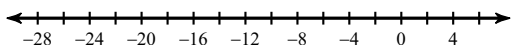
12) $n^2 + 9n$

13) $5n^2 + 8n + 3$

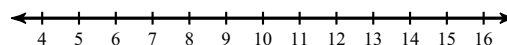
14) $3r^2 - 14r - 5$

Solve each inequality and graph its solution.

15) $|x + 10| > 13$



16) $|m - 10| < 1$



Simplify.

17) $\sqrt{48n}$

18) $\sqrt[4]{32x^6y^3}$

19) $3\sqrt{6} - \sqrt{5} + 2\sqrt{45}$

20) $\sqrt{10}(5 + \sqrt{10})$

21) Write in radical form.

$$(2p)^{\frac{5}{6}}$$

22) Write in power form.

$$(\sqrt{5n})^5$$