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Practice those Questions...

If you have any difficully, ask me before the test...

I will also be reviewing these during our next Tutoring on monday...



You don't need to submit this work...

Ms. Erayil

Ms. Erayil

REVIEW
Packet # 1, 2

Name _____

Simplify each number by using the imaginary unit 'i'

1. $\sqrt{-36}$ 2. $\sqrt{-48}$ 3. $\sqrt{-49}$ 4. $\sqrt{-12}$ 5. $\sqrt{-192}$ 6. $\sqrt{-10}$

Plot Each Complex Number on the coordinate Plane.
Also find the absolute value

7) $6+4i$ 8) $2i$ 9) $5+6i$ 10) $2-2i$ 11) $1-4i$

Simplify each Expression

12) $(4-3i)+(-4+3i)$ 13) $(5-3i)-(-2+4i)$ 14) $(4+3i)-(-2+4i)$

16) $(7-2i)+(3+i)$ 17) $(8+6i)-(8-6i)$ (18) $(4+5i)(-4-5i)$

Simplify each powers of i

19. i^{99} 20. i^{17} 21) $i^{64,002}$ 22) i^{78} 23) i^{29} 24) $i^{13,761}$

Simplify And Rewrite Each Expression Using Only Positive Exponents:

25) $(5x^4y^6z^3)^{-2}$ 26) $\dfrac{(k^2m^2)^0}{3pn^{-2}}$ 27) $\dfrac{(xy^0)^{-4}}{(y^4x^{-2}y^{-3})}$

Simplify Each Radical Expression:

28. $-5\sqrt{192x}$ 29) $2\sqrt[3]{8p^6q^3r}$ 30) $\sqrt{48a^3b^4c^2}$ 31) $\sqrt[3]{5}\cdot\sqrt{25}$

32. $2\sqrt{20}+2\sqrt{18}-2\sqrt{5}$ 33) $-3\sqrt{3}-\sqrt{8}-3\sqrt{3}$ 33) $\sqrt[3]{500}+\sqrt[3]{108}$

Rationalize the Denominator and Simplify:

34) $\dfrac{2+\sqrt{10}}{\sqrt{2}+\sqrt{5}}$ 35) $\dfrac{3+\sqrt{3}}{\sqrt{3}-1}$ 36) $\dfrac{\sqrt{81p^2}}{\sqrt{45p^3}}$ 37) $\dfrac{5\sqrt[3]{3xy^2}}{9\sqrt{8x}}$

38) $\dfrac{\sqrt[3]{12x^2}}{\sqrt[3]{30x^5}}$ 39) $\dfrac{2}{\sqrt[3]{6r^2}}$ 40) That's All

