Warm Up:

Solve the equation for *n* and state the solution set.

$$4+\sqrt{n+9}=5$$

Review for Unit 1 Exam:

1) What is the solution set for the equation $3\sqrt{2x+5}-15=0$?

2) Write in simplest form: $\left(-\sqrt{-5}\right)\left(4\sqrt{-8}\right)$

3) Simplify completely: $2ax\sqrt{45}+ax\sqrt{20}$

4) Determine the value of n in simplest form: $i^{13} + i^{18} + i^{31} + n = 0$

5) Simplify completely: $4 \cdot \sqrt[3]{54a^7b^4}$

6) Find the product of *(3 - 2i)* and *(7 + 6i)* in simplest *a + bi* form.

7) Express $2\sqrt{3x}\left(\sqrt{6}-4\sqrt{2x}\right)$ in simplest form.

8) Simplify completely: $\sqrt{-72a^3b^8}$

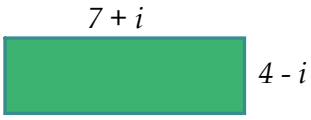
9) Find the product of $(9+i)(5-3i)$ in simplest *a* + *bi* form.

10) Subtract $\frac{1}{2}x^2+\frac{3}{4}x-2$ from $\frac{2}{3}x^2+\frac{1}{4}x-3$.

11) Simplify completely: $\frac{(i^8)^2 i}{i^5(i^2)^6}$

12) Find the product of $\frac{1}{5}x^3-2x$ and $\frac{5}{6}x+\frac{1}{2}$ in simplest form.

13) Find the area of the rectangle shown:



14) Solve and state the solution set: $2+\sqrt{2x-3}=5$

15) Find the sum of $xy\sqrt[3]{54x^5y^6}$ and $\sqrt[3]{16x^8y^9}$ in simplest form.