Precalculus 11 – Midterm Flashback #2

1. Evaluate: $\left(\frac{27}{48}\right)^{-3/2}$

2. Evaluate $2\sqrt[3]{8} - 4\sqrt[4]{16}$

3. Solve $\sqrt{2x+7} - x = -4$. What are the restrictions on x?

4. Factor: $6x^2 + 22x + 20$

5. "All integers are whole numbers." True or False ? Explain how you know.

6. Simplify: $(2a^{-6}b^4)^{-3}$

7. Rationalize and reduce: $\dfrac{2\sqrt{8} - \sqrt{5}}{1 + \sqrt{3}}$

8. Given the function $2x^2 - 5x + 9 = y$, describe what you know about this function based on the numbers in the equation.

9. Solve: $x^2 - 6x = -10$

10. Simplify: $\sqrt{20x^5y^4}$