

Informal Check-In – Section 2 in Entirety

If you can laugh at how easy these questions are, you are ready for tomorrow.

Simplify using the radical exponent relationship

1. $\sqrt{25x^6}$	2. $\sqrt[3]{64z^9}$
Simplify the following using root principles	
3. $\sqrt{32x^5y^7}$	4. $\sqrt[3]{-40x^5y^7}$
Perform the following operations	
5. $\sqrt{125x^2} - 2x\sqrt{45} + 3x\sqrt{5}$	6. $-\sqrt[3]{16y^5} + 2y^3\sqrt{2y^2} - \sqrt[3]{-54y^5}$

7. $(\sqrt[3]{x^2y^2})(\sqrt{x^5y})$

8. Rationalize the Denominator

$$\frac{3}{2 - \sqrt{3}}$$

Solve the radical, identify the Domain Restrictions and Check Solutions for Viability

9. $\sqrt{4t - 7} = 3$

10. $\sqrt{x - 5} + 4 = \sqrt{x} - 1$