# Precalculus 11 – Flashback #2

1. In a geometric sequence, $t_1 = 10$ and $t_2 = -25$, what is $t_8$?

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

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

4. Solve: $3x^2 - 11x - 4 = 0$

5. Define $|x|$

6. Determine $S_\infty$ for $\dfrac{3}{2} - \dfrac{1}{2} + \dfrac{1}{6},...$

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

8. Simplify: Find the vertex of $2x^2 - 5x = 9$.

9. Solve: $x^2 - 6x = -7$

10. What is the maximum height in meters of a projectile modelled by the equation $h(t) = -5t^2 - 100t$

Answers can be found in your One Note Notebook.

*Riverside Math*