

Precalculus 11 – Flashback #5

1. Simplify: $\sqrt[4]{32x^{12}}$. Are there any restrictions on the variable?
2. Expand and simplify: $\sqrt{10}(5 - \sqrt{8})$
3. Rationalize: $\frac{5}{2 - \sqrt{3}}$
4. Simplify and state non-permissible values: $\frac{x^2 + 4x - 32}{x - 4}$
5. Factor: $2x^2 + 9x + 9$
6. Sketch graph of: $y = 3(x + 1)^2 + 4$
7. Determine the equation of the quadratic with zeros of 5 and -3.
8. Solve: $(x - 2)(x + 7) = 0$
9. Complete the square: $x^2 - 4x + 1$
10. Graph the solution for $x^2 - 11x + 30 > 0$
11. Given the sequence 52, 47, 42, determine t_{20}
12. For the equation $y = \frac{1}{x^2 + 15x + 56}$, write the equations for the asymptotes