1. Find the exact solutions: \(15 - 3x^2 = 0\)

2. Find the exact value of \(\cos \left(\frac{7\pi}{6}\right)\).

3. Factor completely: \(16 - 2x^3\)

4. Simplify completely: \(\frac{x^2 - 4y^2}{2y - x}\)

5. Evaluate and simplify as a single fraction with a rational denominator:

\[2\cos(30^\circ) + 4\tan(150^\circ)\]

6. Find the exact solutions: \(x(3x - 2) = 5\)

7. Find the domain of the function \(f(x) = \sqrt{x + 4}\) (provide answer in interval notation)

8. Write the Pythagorean Identity in trigonometry which has the square of a Secant term.

9. Find all solutions for \(\theta\): \(4\cos(\theta) + 2 = 0\) where \(0 \leq \theta < 2\pi\)

10. Given \(f(x) = \frac{x}{1 - 2x}\), find \(f(x - 2)\). Simplify your answer.