1. Write the quadratic equation whose roots are 1 and 5, and whose leading coefficient is 3.

2. Solve.

\[ x^4 - 17x^2 + 16 = 0 \]

If there is more than one solution, separate them with commas.

3. Write the quadratic equation whose roots are \(-1\) and 5, and whose leading coefficient is 4.

4. Find all real number solutions.

\[ x + \frac{1}{7x^2} - 18 = 0 \]

5. Solve.

\[ y^4 - 13y^2 = -36 \]

If there is more than one solution, separate them with commas.
6. Find all real number solutions.

\[
\frac{1}{x - 3} x^2 - 4 = 0
\]