List the roots, vertical asymptotes, and leading term of the following functions, then draw the qualitative graph.

1. \[
\frac{x - 5}{(x + 1)^2(x - 3)^2}
\]

2. \[
\frac{(x + 2)(2x - 8)(x - 6)}{(x)(x - 2)^2}
\]
3. \[
\frac{x - 1}{x^2 + 5x + 6}
\]

4. Note that the ends of the graph should behave like those of the leading term.
\[
\frac{(x^2 - 1)(x^2 - 4)}{x(x - 3)}
\]