A ***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*** is a quotient of two polynomials. We can simplify them by dividing out common \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Steps to simplifying rational expressions:

1.) Factor the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ completely.

2.) Factor the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ completely.

3.) Simplify any \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the numerator/denominator to 1.

DON'T STEAL SOCKS!

Always write your answer in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_!

Examples: Simplify completely.

|  |
| --- |
| 1.) |
| 2.) |
| 3.) |
| 4.) |