GED Calculator Prohibited Indicators Worksheet

I. **Ordering Fractions and Decimals**
1. Place the following numbers in order of least to greatest: -

   $0.2, -\frac{1}{2}, 0.6, \frac{1}{3}, 1, 0, \frac{1}{6}$

2. Place the following numbers in order from greatest to least:

   $\sqrt{4}, 1\frac{4}{5}, \frac{11}{5}, \pi, 3.2$

3. Use the number line below to plot all the numbers listed in

   questions 1 and 2.

II. **Factors and Multiples (i.e. LCM, GCF or distributive property)**
1. Find the least common multiple that is necessary to manually perform the indicated operation:
$$\frac{7}{6} - \frac{1}{4}$$
2. Find the greatest common factor that will help reduce the fraction below into its simplest form.
$$\frac{12}{45}$$
3. Create a factor tree to transform the number 72 into a product of prime factors.

4. Factor the expression: $7x + 42x^2$

5. Perform the indicated operation(s): $5x(x + 1)^2$

III. **Rules of Exponents**
1. Simplify the following:
   - $x^3 \cdot x^2 =$

   - $3^2 \cdot 3^{-5} =$

   - $x^{-1} \cdot x^{-4} =$

   - $2^3 \div 2^2 =$

   - $\dfrac{x^4}{(x^2)^2} =$

   - $\dfrac{4^{-2}}{4^3} =$

   - $\dfrac{5^{-2}}{5^{-5}} =$

2. Simplify the following:
   - $(x^3)^5 =$

   - $(3^3)^{-2} =$

   - $5(x^3)^{\frac{1}{2}} =$

   - $(4^2)^{\frac{1}{2}} =$