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G9 - Exam Review – 01 www.**NallPro**.com **Name:**

Show all your details work on separate sheet(s) (8½ x 11):

1. Evaluate.

   a) $\frac{-2}{5}+\frac{1}{6}-\left(\frac{-1}{15}\right)$ b) $x^2-2xy-y^2$ when $x=3$ and $y=-1$.

2. Simplify.

   a) $xy-8y-5xy-3x^2+2x^2-12y$ b) $3x^4y^2\left(x^2y+4x-2\right)$

   c) $4x-2(3x-2)+3(3x-1)$ d) $\left(-2x^4y\right)^3$

3. **Solving equations.** Solve for x in each equation.

   a) $6x+10=2x+2$ b) $2(5x-3)=-2x-10$ c) $\frac{2x-3}{4}-\frac{3x-2}{3}=1$

4. **Word Problem**: You must use an equation with one variable to solve this problem and use proper problem solving form.

   A box contains 34 more dimes than nickels. The total value is $11.20. How many dimes and how many nickels are in the box?

5. Determine the equation for the growth of a tree over a 5 year period from the graph.