Contest I:

1. $(1674.23 - 1829)(17.893 + 932.91)$

2. $(76291 - 42835)^{17} + (62389^5 - 82313)^{12}$

3. $\dfrac{5.823\times10^{20}}{9.389\times10^{30}}$

4. $\dfrac{3920+91.385^{15}-(58.92-\sqrt{18882}}{2^{18}}$

5. $(78923^{10} - \dfrac{4398.78}{23189})$

Contest II: Evaluate each expression for the given values of the variables.

1. $xy - x^2$ if x = 2.34 and y = 87.83

2. $\dfrac{3x^2 - y^3}{xy}$ if x = 17.98 and y = 10,000

3. $x^2 - y^2 + xy$ if x = 489172 and y = 789342

4. $xy - 2x + 2y + 4x^2$ if $x = 6.289 \times 10^4$ and $y = -2.393 \times 10^{-8}$

5. $\dfrac{5c+ef-17d}{d^3}$ if c = 7.283, d = 8.9789, e = 714.21 and f = 78938

Contest III: Solve each equation for x.

1. $\dfrac{8.2934\times10^{71}}{348x} = \dfrac{8321933}{-429709}$

2. $78043x - 4.78902 = 7.379x - 783.3$

3. $13\left(\dfrac{18}{3}x - 14\right) = 8.914\times10^{21}$

4. $\dfrac{72.87x}{23} = \dfrac{7800x+1}{18.23}$

Contest IV:

1. Solve for x:
$4.83x^2 - 4.35x + 147 = 19 - 33x + 41x^2$

2. Solve for x:
$\dfrac{325x+18}{924} = \dfrac{883}{25x-329}$

3. Find the area of the circle that has radius 7.23×10^4. Use 3.14 for π.

4. Find the largest solution for the equation $1680x^2 - 319x + 3192 = 0$

5. If the area of a rectangle is 83274.31 square units and the length is twice the width, find the length.

5. $2(x + 832.12) - \dfrac{2}{3}(19x - 82.39)$