

YOUR NAME: _____

George Voutsadakis

Read each problem **very carefully** before starting to solve it. Each problem is worth 5 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Find an equation for the line that is perpendicular to the line with equation $5x + 3y = -1$ and passes through the point $(2, -5)$. Then write the equation that you found in the slope-intercept form.

2. Simplify and/or evaluate the following exponential expressions:

$$\left(\frac{25}{4}\right)^{-3/2} =$$

$$\frac{x^7 y^3}{x^5 y^{-2}} =$$

$$\left(\frac{x^{-3}}{y^2}\right)^{-5} =$$