QUIZ 5 - MATH 102	Friday, October 4
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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. Use the **Gauss-Jordan method** to solve the system $\left\{ \begin{array}{lcl} 2x & + & 4y & = & 18 \\ 7x & - & 10y & = & 15 \end{array} \right\}$

2. Simplify the following expressions and write your answers without negative exponents:

(a)
$$\frac{10x^5y^2 \cdot y^{-3}}{2x^{-3}y^{-1}}$$

(b)
$$\frac{(-2x^{-5}y)(-3xy^8)}{-6x^{-6}y^3}$$

3. Simplify the following expressions and write your answers without negative exponents:

(a)
$$(-2x^{-2}y^7)^{-3}$$

(b)
$$(7xz^2) \left(\frac{7xy^{-1}}{z}\right)^{-3}$$