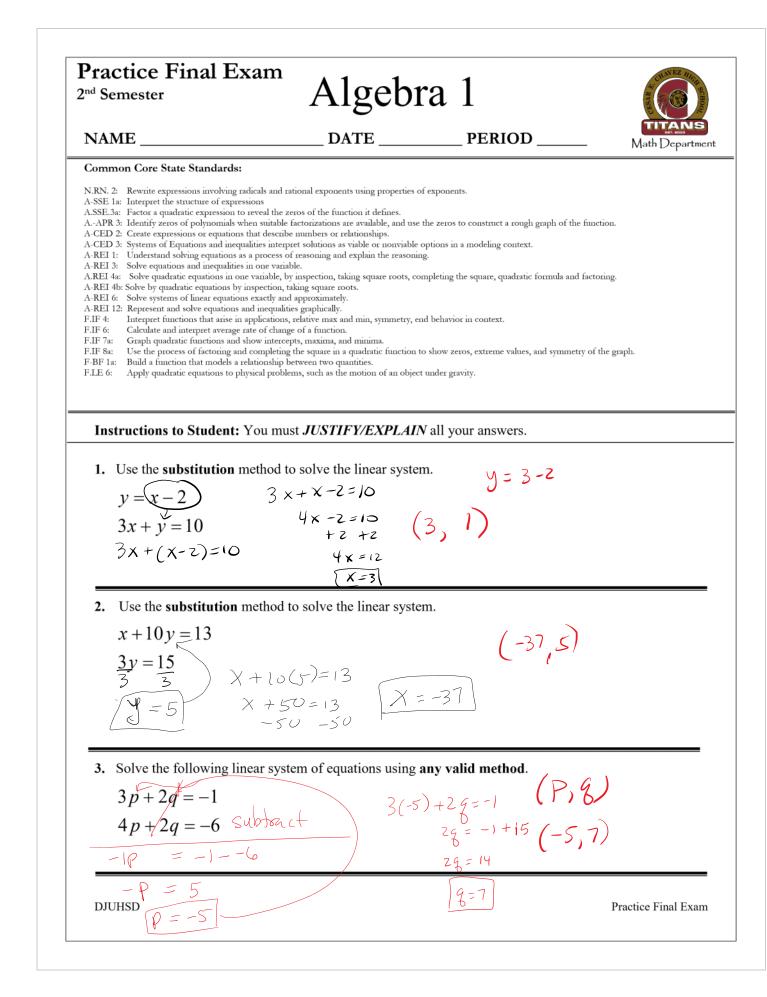
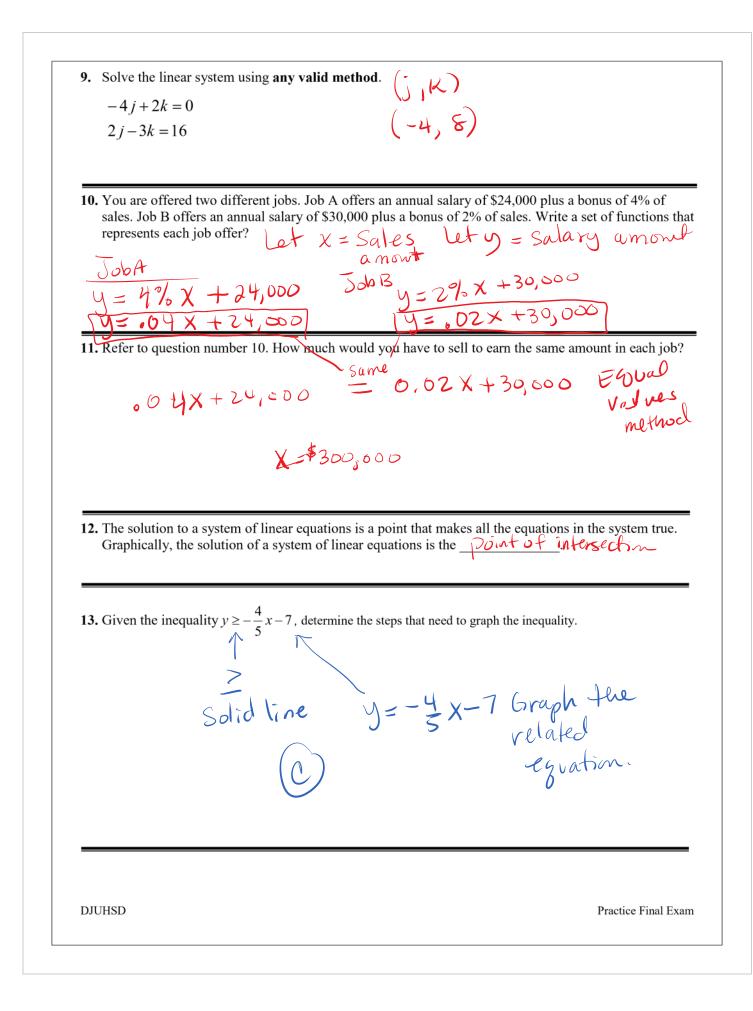
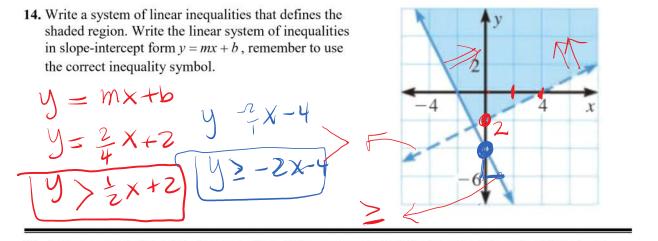
Practice Final CPM



4. Write a linear system of equations for the given graph.
Write the equations in standard form
$$Ax + By = C$$
.
 $Iy = -1X + 4y$
 $Ix + y = -1$
 $Ix + y = -2$
 $Ix + y =$





15. Andrew can work a total of no more than 25 hours per week at his two jobs. He makes \$9 an hour tutoring and \$7 an hour as a waiter. Andrew needs to earn at least \$180 per week to cover his expenses. The system of inequalities that represents this situation, where x = the number of hours tutoring and y = the number of hours as a waiter, is:

Hours :
$$x + y \le 25$$

Money : $9x + 7y \ge 180$

Which of the following is possible way Andrew can divide her hours between the two jobs?

A. 3 hours tutoring and 21 hours as a waiter

B. 5 hours tutoring and 20 hours as a waiter

C. 6 hours tutoring and 21 hours as a waiter

D. 10 hours tutoring and 11 hours as a waiter

- E. None of these
- 16. Use the property of exponents to simplify the following expression $(9)^{-5} \cdot (9)^7$. Write your answer in exponential notation. Add the exponent

(9)-5+7

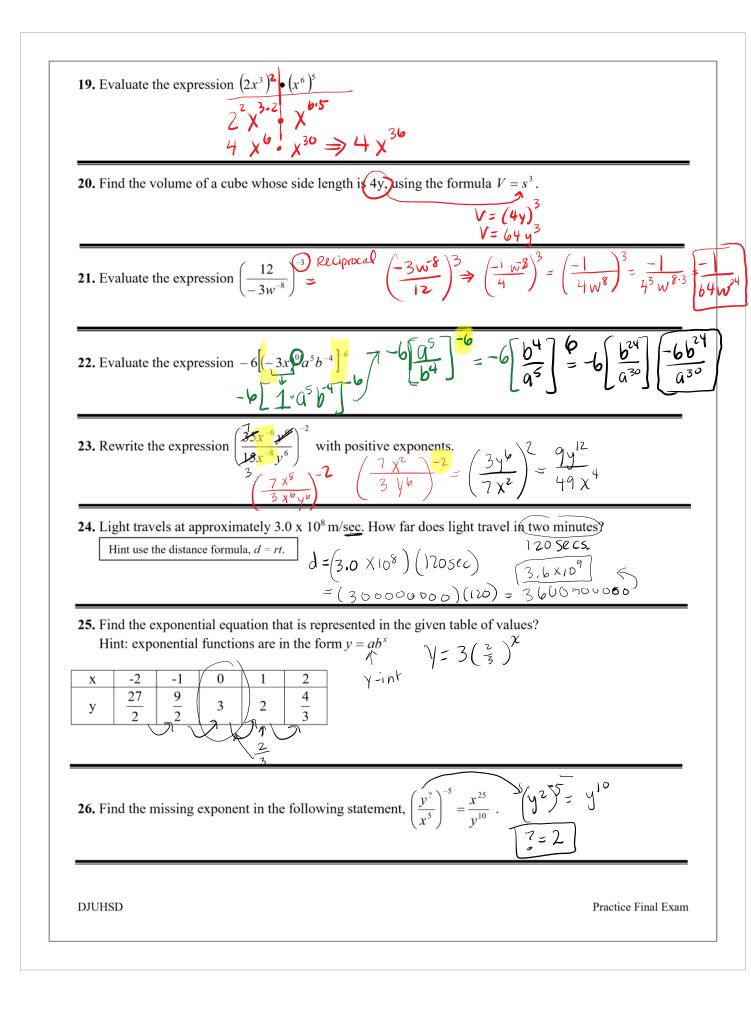
17. Use the property of exponents to simplify the following expression $(m^{-8})^5$. Power to power mult EXP

$$m^{-8.5} = m^{-40} = \frac{1}{m^{40}}$$

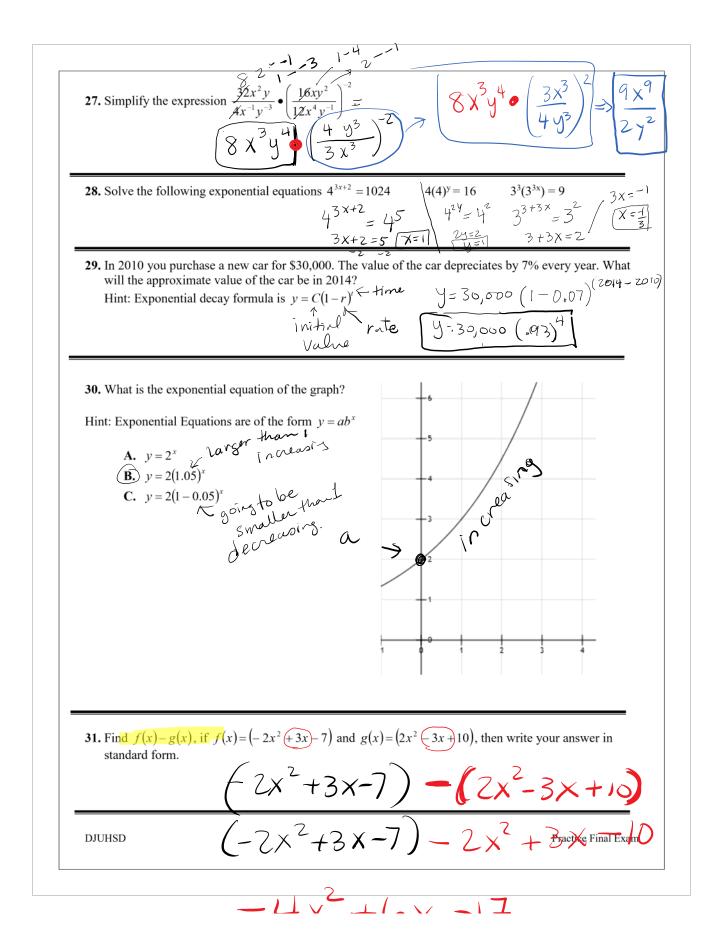
18. Use the property of exponents to simplify the following expression $\left(\frac{-7}{14}\right)^4 = \left(\frac{-1}{2}\right)^4 = \frac{+1}{2^4} = \frac{1}{16}$

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