Algebra 1 Review

Solve the equations.

-156 = -6(2 + 4x)

>5(1+8x) + 3x = -296

Solve for the indicated variable.

 $\triangleright xm = n - p$, for x



Solve the following inequalities.

>11 < 5x + 6 < 16

$\boxed{}-9 \leq 6-5b < 46$

Write the equation in slope intercept form of the line passing through the following points. Through (-3,1) and (0,-1)

Through (2,-4) and (-5,3)

Simplify. Your answer should only contain positive exponents.



 $2y^2$ $4x^4y^{-3}\cdot 4x^{-2}y^4$

Factor completely.

 $-12x^2y - 12y + 6$

$-12m^2n^3 + 32mn^4 - 16mn^3$

Factor completely.

 $n^2 + 16n + 63$



Solve by factoring.

 $>3x^2 + 24x + 45 = 0$



Gabriella and Wilbur are selling pies for a school fundraiser. Customers can buy blueberry pies and blackberry pies. Gabriella sold 3 blueberry pies and 10 blackberry pies for a total of \$213. Wilbur sold 11 blueberry pies and 5 blackberry pies for a total of \$211. What is the cost each of one blueberry pie and one blackberry pie?