Honors Math II Unit 3 Review Spring 17 **Name:_____**

Simplify each monomial

1) $\left(\frac{-3x^2yz^2}{2x^3y^2z^3}\right)^3$

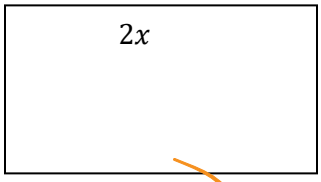
2) $(6x^4y^3z)(-3xy^5)$

3) $(-2x^3)^2(-4xy)^3$

4) $\frac{-3x^3y^2z^{-4}}{12x^4y^{-3}z^2} =$

5) $\left(\frac{-3x^3y^{-2}z^5}{9x^5y^4z^{-3}}\right)^{-2}$

Find the area of the rectangle



$2x^3 - 5$

$2x^2 + 4x - 3$

Solve each system

10) $y = x^2 + 2x + 4$

$y = 6x + 1$

11) $y = 5x - 20$

$y = x^2 - 5x + 5$

12) $y = x^2 - 11x - 36$

$y = -12x + 36$

13) $y = x^2 - 6x + 9$

$y + x = 5$