EVALUATING ALGEBRAIC EXPRESSIONS

#1 $-3p^2-4p+3$ For $p=-2$

STEP 1: REPLACE THE VARIABLES WITH PARENTHESIS

$-3(\ )^2-4(\ )+3$

STEP 2: PLUG IN THE GIVEN VALUE INTO PARENTHESIS

$-3(-2)^2-4(-2)+3$

STEP 3: SIMPLIFY

$-3(4)-4(-2)+3$

$-12-4(-2)+3$

$-12+8+3$

$-4+3$

-1

#2 $\frac{5y-z+x}{x-y}$ $x=2$ $y=-3$ $z=-1$

$\frac{5(-3)-(-1)+(2)}{(2)-(-3)}$

$\frac{5(-3)+1+2}{2+3}$

$\frac{-15+1+2}{5}$

$\frac{-14+2}{5}$

$\frac{-12}{5}$

#3 a^2-5b^2 $a=-2$ $b=-3$

$(-2)^2-5(-3)^2$

$4-5(-3)^2$

$4-5(9)$

$4-45$

-41

DISTRIBUTIVE PROPERTY

#4 $2(3x^2-7x+4)$

$2(3x^2)+2(-7x)+2(4)$

$6x^2-14x+8$

#5 $-3(4a-b)$

$-3(4a)-3(-b)$

$-12a+3b$

#6 $(4x-7y)5$

$5(4x)+5(-7y)$

$20x-35y$