Evaluating Polynomials Practice

Name: _____ Date: _____

Question 1

Evaluate

I. $-4y + 9$ $y = 7$

II. $-6z + 5$ $z = -3$

III. $\frac{1}{3}z^3 + \frac{1}{2}z^2 + \frac{1}{6}z$ $z = 3$

IV. $11.12y^2$ $y = -100$

V. $-3z^2 - 9z - 7$ $z = -2$

VI. $3y^3 + 6y^2 - 14$ $y = -3$

VII. $4 - 3x$ $x = -5$

VIII. $6z^3 + 5z^2 - z + 25$ $z = -2$

Evaluating Polynomials Practice

Name: **Key** Date: _____

Question 1

Evaluate

I. $-4y + 9$ $y = 7$

$-4(7) + 9 = -19$

II. $-6z + 5$ $z = -3$

$-6(-3) + 5 = 23$

III. $\frac{1}{3}z^3 + \frac{1}{2}z^2 + \frac{1}{6}z$ $z = 3$

$\frac{1}{3}(3)^3 + \frac{1}{2}(3)^2 + \frac{1}{6}(3) = 14$

IV. $11.12y^2$ $y = -100$

$11.12(-100)^2 = 111{,}200$

V. $-3z^2 - 9z - 7$ $z = -2$

$-3(-2)^2 - 9(-2) - 7 = -1$

VI. $3y^3 + 6y^2 - 14$ $y = -3$

$3(-3)^3 + 6(-3)^2 - 14 = -41$

VII. $4 - 3x$ $x = -5$

$4 - 3(-5) = 19$

VIII. $6z^3 + 5z^2 - z + 25$ $z = -2$

$6(-2)^3 + 5(-2)^2 - (-2) + 25 = -1$