**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Multiplying a Monomial by a Polynomial**

**NO WORK, NO CREDIT!!!!!!!!**

**Find the product of each pair of polynomials. Write your final answer on the space provided.**

1. $-3x\left(4x^{3}-7x+2x\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. $2ab^{2}\left(4a^{2}b-7a^{3}b+2a^{4}\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. $-xy\left(4x^{2}y^{3}-xy^{4}+6y^{5}\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. $-6\left(2mn^{4}+7m^{2}n^{3}+3m^{3}n^{2}\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Multiply each polynomial using distributive property then combine like terms. Write your final answer on the space provided.**

1. $2\left(3a-4b\right)-3\left(4a-10b\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. $3x\left(-4x^{2}-7x\right)+2\left(x^{2}-2x+1\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. $2\left(x-y\right)-\left(2x+3y\right)+2\left(3x+y\right)$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. $-2x^{2}\left(4x-4\right)+2x\left(x+2x^{2}\right)$ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Find the area and perimeter for each polygon. Show your work on a separate sheet of paper. Write your answers on the space provided.**

$$4x^{2}-2x+8$$

$$3x$$

1. .

Perimeter = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Area = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

$$6x^{2}+x-4$$

$$8x$$

$$2x-1$$

$$2x-1$$

1. .

Perimeter = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Area = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Perimeter = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Area = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

$$8x^{2}-3x+1$$

$$6x$$

$$3x+1$$