Name: \_\_\_\_\_\_

## **Monomials**

A) Multiply the following monomials. Write answers in simplest form.

1) 
$$(9x^{10}z^2)(-x^5y^3)$$

2) 
$$\left(-8f^{6}g\right)\left(-7f^{2}g^{5}h\right)$$

3) 
$$(4a^9b)^0(5a^2b^5c)$$

4) 
$$(1.3a^6b^{11}c^5)(0.5a^2bc^3)$$

5) 
$$(11c^8)(-10c^4d)$$

$$(a^x b^y c^z) (a^r b^s c^t)$$

7) 
$$(7q^5)(12q^3r^5)$$

9) 
$$-4x^2(-4x)^2$$

11) 
$$x(2x^2)^3$$

12) 
$$(-6x^3y^6)^2$$

13) 
$$x^4(-3x^2)$$

14) 
$$(xy^5)^3$$

15) 
$$(m^4n^6)^4(m^2n^6p)^7$$

**16)** 
$$(m^3n^8p^3)^{11}(m^7n^3p)^5$$

17) 
$$(xy^3)^2(x^2y)^3$$

18) 
$$(-2x)(x^2y)(4x^3y^3)$$

19) 
$$(-x)(9x^2y^3)$$

20) 
$$3xy(2xy^2)^3$$

**21)** 
$$(-19x^2)(2x^6)$$

22) 
$$-2(x^2)^3(-\frac{1}{2}x)^3$$

25) 
$$(2a^2bc)(-3a^3b^2c^5)$$

28) 
$$(xy^2z^3)(x^2yz^2)$$

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В)	29)What is the area of a square with the length of a side equal to $3a^5$ ?
C)	30) What is the area of a square with the length of a side equal to $4a^9$ ?
D)	The area of a rectangle is $36x^3y^7$ and its width is $6x^2y^5$ .
	31) Find the measure of its length in terms of x and y.

32) What is the area of the rectangle with the width of  $6x^2$  and the length of  $12x^3$ ?

E)