Name_____

**Section 2-1 and 2-1 Review**

Evaluate the expression.

1. $4-12\cdot 4\div 6+9$ [A] –2 [B] –5 [C] 5 [D] 8

[1] _____

2. $27\times 3^2-2\cdot 5^2$ [A] 293 [B] 193 [C] 6025 [D] 270

[2] _____

3. $2-14\cdot 6\div 7+9$

[3] _____

4. $\dfrac{100\cdot 5^2-4\cdot 4^2}{4+5^2}$

[4] _____

5 $(64)^{\frac{-2}{3}}$ [A] $-\dfrac{1}{16}$ [B] 16 [C] $\dfrac{1}{16}$ [D] $-16$

[5] _____

6. $\left(\dfrac{7}{8}\right)^{-2}$ [A] $\dfrac{64}{49}$ [B] $-\dfrac{64}{49}$ [C] $-\dfrac{7}{4}$ [D] $\dfrac{49}{8}$

[6] _____

7. $\left(-\dfrac{3}{8}\right)^{2}$

[7] _____

8. $\left(\dfrac{4}{3}\right)^{-2}$

[8] _____

Simplify the expression.

9. $\dfrac{(-g)^3(-g^7)^6}{(g^4)^7}$ [A] $g^5$ [B] $-g^{-9}$ [C] $-g^{17}$ [D] $\dfrac{1}{g^9}$

[9] _____

10. $\left(-\dfrac{5a^3b^4c^0}{3a^4b^5c^7}\right)^{-3}$ [A] $-\dfrac{3^3a^3b^3c^{21}}{5^3}$ [B] $\dfrac{5^3a^3}{3^3b^3c^{21}}$ [C] $\dfrac{3^3a^3}{5^3b^3c^{21}}$ [D] $-\dfrac{3^3b^3c^{21}}{5^3a^3}$

[10] _____

11. $(5x^6)(4x^4)$

[11] _____

12. $\dfrac{(xy^{11})(x^2y)}{(x^6y^2)^5}$

[12] _____