Student: _____ **Date:** _____ **Time:** _____	**Instructor:** Fred Khoury **Course:** Math 2312-1000 Precalculus (Fall - 2015) **Book:** Lial: College Algebra and Trigonometry, 4e	**Assignment:** Quiz Sec 4.4

1. Write the binomial expansion of the expression.

$(3x-2)^5$

A. $(9x^2-12x+4)^5$

B. $243x^5-810x^4+1080x^3-720x^2+240x-32$

C. $243x^5-162x^4+108x^3-72x^2+48x-32$

D. $243x^5+240x^4-720x^3-720x^2+240x-32$

2. Write the binomial expansion of the expression.

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

A. $8x^6+48x^4+96x^2+64$

B. $8x^3+48x^2+96x+64$

C. $(4x^4+16x^2+16)^3$

D. $16x^8+8x^6+48x^4+96x^2+64$

3. Write the binomial expansion of the expression.

$(a-b)^6$

A. $-a^6+6a^5b-15a^4b^2+20a^3b^3-15a^2b^4+6ab^5-b^6$

B. $a^6-6a^5b+15a^4b^2-20a^3b^3+15a^2b^4-6ab^5+b^6$

C. $a^6+6a^5b+15a^4b^2+20a^3b^3+15a^2b^4+6ab^5+b^6$

D. $a^6-6a^5b-15a^4b^2-20a^3b^3-15a^2b^4-6ab^5-b^6$

4. Write the binomial expansion of the expression.

$(-2x^2-y)^5$

A. $-32x^{10}+80x^8y-80x^6y^2+40x^4y^3-10x^2y^4+y^5$

B. $-32x^{10}-80x^8y+80x^6y^2-40x^4y^3+10x^2y^4-y^5$

C. $-32x^{10}-80x^8y-80x^6y^2-40x^4y^3-10x^2y^4-y^5$

D. $32x^{10}+80x^8y+80x^6y^2+40x^4y^3+10x^2y^4+y^5$

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5. Write the binomial expansion of the expression.

$$\left(-2+\frac{y}{4}\right)^5$$

A. $-32+20y-5y^2+\frac{5}{8}y^3-\frac{5}{128}y^4+\frac{1}{1024}y^5$

B. $-32-2500y+-500y^2-\frac{25}{4}y^3+-\frac{5}{128}y^4-\frac{1}{1024}y^5$

C. $-32-20y--5y^2-\frac{5}{8}y^3--\frac{5}{128}y^4-\frac{1}{1024}y^5$

D. $32+20y+-5y^2+\frac{5}{8}y^3+-\frac{5}{128}y^4+\frac{1}{1024}y^5$

6. Write the binomial expansion of the expression.

$$\left(\frac{1}{x}-\sqrt{11}\,y\right)^3$$

A. $\frac{1}{x^3}-\frac{3\sqrt{11}\,y}{x^2}+\frac{99y^2}{x}-11\sqrt{11}\,y^3$

B. $\frac{1}{x^3}-\frac{3\sqrt{11}\,y}{x^2}-\frac{33y^2}{x}-11\sqrt{11}\,y^3$

C. $\frac{1}{x^3}+\frac{3\sqrt{11}\,y}{x^2}+\frac{33y^2}{x}+11\sqrt{11}\,y^3$

D. $\frac{1}{x^3}-\frac{3\sqrt{11}\,y}{x^2}+\frac{33y^2}{x}-11\sqrt{11}\,y^3$