Q1. If an expression is taken away from $5p^3 + 5p^2 - 2p + 3$ to obtain $-4p^3 + 3p^2 + 3p - 5$, then the expression is ____.

A. $10p^3 + 3p^2 - 4p + 8$
B. $8p^3 + p^2 - 7p + 10$
C. $8p^3 - 4p + 8$
D. $9p^3 + 2p^2 - 5p + 8$

Q2. By how much is $x^3 - 4x^2y + 7xy^2 + y^3$ more than $y^3 + 3xy^2 - 5x^2y + x^3$?

A. $x^2y + 4xy^2$
B. $2x^2y + 4xy^2$
C. $31x^2y + 22xy^2$
D. $26x^2y + 45xy^2$

Q3. By how much is $x^3 + 6x^2y + 2xy^2 + y^3$ less than $y^3 - 3xy^2 + 4x^2y + x^3$?

A. $35x^2y - 26xy^2$
B. $5xy^2 - 2x^2y$
C. $18x^2y + 32xy^2$
D. $46x^2y - 15xy^2$

Q4. By how much is $x^3 - 6x^2y + 6xy^2 + y^3$ more than $y^3 + 2xy^2 - 3x^2y + x^3$?

A. $26x^2y - 23xy^2$

B. $37x^2y + 22xy^2$

C. $3x^2y + 4xy^2$

D. $45x^2y + 34xy^2$

Q5. By how much is $x^3 + 6x^2y + 3xy^2 + y^3$ less than $y^3 - 3xy^2 - 2x^2y + x^3$?

A. $28x^2y - 45xy^2$

B. $43x^2y - 6xy^2$

C. $4x^2y - 19xy^2$

D. $6xy^2 - 8x^2y$

Q6. By how much is $x^3 - 7x^2y - 4xy^2 + y^3$ less than $y^3 + 2xy^2 + 5x^2y + x^3$?

A. $28x^2y - 14xy^2$

B. $6xy^2 + 12x^2y$

C. $35x^2y + 35xy^2$

D. $32x^2y - 45xy^2$

Q7. Simplify $(2x + 2y)^2 + (2x - 2y)^2$

A. $8x^2+8y^2$

B. $42x^2 + 139xy + 35y^2$

C. $19x^2 + 48y^2$

D. $68x^2 + 148xy + 54y^2$

Q8. Simplify $(7x + 7y)^2 + (7x + 7y)^2$

A. $13xy$

B. $73x^2 + 116xy + 24y^2$

C. $23x^2 + 66y^2$

D. $98x^2+196xy+98y^2$

Q9. If an expression is taken away from $-6p^3 + 5p^2 - 5p - 5$ to obtain $-4p^3 + 5p^2 + 2p + 3$, then the expression is ____.

A. $-5p - 9$

B. $-9p - 6$

C. $-8p - 9$

D. $-2p^3 - 7p - 8$

Q10. If an expression is taken away from $-5p^3 + 4p^2 - 5p - 2$ to obtain $-6p^3 - 3p^2 + 5p + 6$, then the expression is ____.

A. $p^3 + 7p^2 - 10p - 8$

B. $2p^3 + 9p^2 - 11p - 10$

C. $7p^2 - 12p - 9$

D. $-p^3 + 8p^2 - 11p - 9$

Answer Sheet

Q1. D	Q2. A	Q3. B
Q4. C	Q5. D	Q6. B
Q7. A	Q8. D	Q9. D
Q10. A		