

Student Name: _____

Score: _____

Multiply the Binomials and Monomials

1. $3x^2 + 2xy$, $2x$ = _____

2. $-x^3 + 5y$, $2xy$ = _____

3. $3a^3 - ab$, $3a^2$ = _____

4. $-a^3b + 2b^3$, $5a^3b^2$ = _____

5. $-uw + 2vw$, $3u^2$ = _____

6. $6xy^2 + 5xz$, $7xz$ = _____

7. $uvw + v^2w$, $-vw$ = _____

8. $-2ab + 3xy$, $5ax$ = _____

9. $6y^3 - 2z^2$, $4y^2z$, = _____

10. $u^3 - v^3$, $2uv$ = _____

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Answers

$$1. 3x^2 + 2xy, 2x = 6x^3 + 4x^2y$$

$$2. -x^3 + 5y, 2xy = -2x^4y + 10xy^2$$

$$3. 3a^3 - ab, 3a^2 = 9a^5 - 3a^3b$$

$$4. -a^3b + 2b^3, 5a^3b^2 = -5a^6b^3 + 10a^3b^5$$

$$5. -uw + 2vw, 3u^2 = -3u^3w + 6u^2vw$$

$$6. 6xy^2 + 5xz, 7xz = 42x^2y^2z + 35x^2z^2$$

$$7. uvw + v^2w, -vw = -uv^2w^2 - v^3w^2$$

$$8. -2ab + 3xy, 5ax = -10a^2bx + 15ax^2y$$

$$9. 6y^3 - 2z^2, 4y^2z, = 24y^5z - 8y^2z^3$$

$$10. u^3 - v^3, 2uv = 2u^4v - 2uv^4$$