Expansion

FOIL

1. $expand\ \left(3x^2 + 2y\right)\left(5x^2 + 4y\right)$

2. $expand\ \left(2x^2 + 6y\right)\left(4x^2 - 2y\right)$

3. $expand\ \left(5x^2 - 3y\right)\left(2x^2 + 5y\right)$

4. $expand\ \left(8x^2 + 8y\right)\left(3x^2 + 8y\right)$

5. $expand\ \left(9x^2 + 8y\right)\left(8x^2 - 2y\right)$

6. $expand\ \left(4x^2 - 4y\right)\left(7x^2 + 8y\right)$

7. $expand\ \left(7x^2 + 9y\right)\left(4x^2 + 8y\right)$

8. $expand\ \left(3x^2 - 3y\right)\left(2x^2 + 7y\right)$

9. $expand\ \left(3x^2 + 5y\right)\left(2x^2 + 10y\right)$

10. $expand\ \left(3x^2 - 2y\right)\left(7x^2 + 9y\right)$

Answers

Expansion

FOIL

1. $15x^4 + 22x^2y + 8y^2$

2. $8x^4 + 20x^2y - 12y^2$

3. $10x^4 + 19x^2y - 15y^2$

4. $24x^4 + 88x^2y + 64y^2$

5. $72x^4 + 46x^2y - 16y^2$

6. $28x^4 + 4x^2y - 32y^2$

7. $28x^4 + 92x^2y + 72y^2$

8. $6x^4 + 15x^2y - 21y^2$

9. $6x^4 + 40x^2y + 50y^2$

10. $21x^4 + 13x^2y - 18y^2$