

Multiplication d'un Monôme par un Trinôme (A)

Simplifiez chaque expression.

1. $3n^3(5n^5 - 5n^4 + 8n^3)$

2. $4f^5(9f^5 - 6f^4 + 6f^3)$

3. $-8q(-3q^4 - q^3 + 8q^2)$

4. $9n^4(-3n^2 - 3n + 4)$

5. $-4h(7h^2 - 8h - 5)$

6. $-6n^4(-5n^3 - n^2 + 4n)$

7. $8f^5(9f^3 - 8f^2 + 2f)$

8. $-w^3(5w^3 + 4w^2 - 9w)$

9. $-6c^3(4c^4 + 5c^3 - 8c^2)$

10. $-g(-6g^3 - 2g^2 + 6g)$

Multiplication d'un Monôme par un Trinôme (A) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & 3n^3(5n^5 - 5n^4 + 8n^3) \\ & = 15n^8 - 15n^7 + 24n^6 \end{aligned}$$

$$\begin{aligned} 2. & 4f^5(9f^5 - 6f^4 + 6f^3) \\ & = 36f^{10} - 24f^9 + 24f^8 \end{aligned}$$

$$\begin{aligned} 3. & -8q(-3q^4 - q^3 + 8q^2) \\ & = 24q^5 + 8q^4 - 64q^3 \end{aligned}$$

$$\begin{aligned} 4. & 9n^4(-3n^2 - 3n + 4) \\ & = -27n^6 - 27n^5 + 36n^4 \end{aligned}$$

$$\begin{aligned} 5. & -4h(7h^2 - 8h - 5) \\ & = -28h^3 + 32h^2 + 20h \end{aligned}$$

$$\begin{aligned} 6. & -6n^4(-5n^3 - n^2 + 4n) \\ & = 30n^7 + 6n^6 - 24n^5 \end{aligned}$$

$$\begin{aligned} 7. & 8f^5(9f^3 - 8f^2 + 2f) \\ & = 72f^8 - 64f^7 + 16f^6 \end{aligned}$$

$$\begin{aligned} 8. & -w^3(5w^3 + 4w^2 - 9w) \\ & = -5w^6 - 4w^5 + 9w^4 \end{aligned}$$

$$\begin{aligned} 9. & -6c^3(4c^4 + 5c^3 - 8c^2) \\ & = -24c^7 - 30c^6 + 48c^5 \end{aligned}$$

$$\begin{aligned} 10. & -g(-6g^3 - 2g^2 + 6g) \\ & = 6g^4 + 2g^3 - 6g^2 \end{aligned}$$

Multiplication d'un Monôme par un Trinôme (B)

Simplifiez chaque expression.

1. $7f^5(5f^4 + 9f^3 + 5f^2)$

2. $-2d^3(-d^2 - 4d + 4)$

3. $-x^5(4x^5 - 3x^4 - 3x^3)$

4. $7h^3(9h^2 + 7h + 5)$

5. $5z^2(-7z^5 + 8z^4 - 6z^3)$

6. $9g(9g^3 + 9g^2 - 8g)$

7. $7s(-s^3 + 5s^2 - 3s)$

8. $-3c^5(9c^3 - 4c^2 + 7c)$

9. $-4n(-8n^5 - 7n^4 + 6n^3)$

10. $-5k^3(6k^3 - 2k^2 - 3k)$

Multiplication d'un Monôme par un Trinôme (B) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & 7f^5(5f^4 + 9f^3 + 5f^2) \\ & = 35f^9 + 63f^8 + 35f^7 \end{aligned}$$

$$\begin{aligned} 2. & -2d^3(-d^2 - 4d + 4) \\ & = 2d^5 + 8d^4 - 8d^3 \end{aligned}$$

$$\begin{aligned} 3. & -x^5(4x^5 - 3x^4 - 3x^3) \\ & = -4x^{10} + 3x^9 + 3x^8 \end{aligned}$$

$$\begin{aligned} 4. & 7h^3(9h^2 + 7h + 5) \\ & = 63h^5 + 49h^4 + 35h^3 \end{aligned}$$

$$\begin{aligned} 5. & 5z^2(-7z^5 + 8z^4 - 6z^3) \\ & = -35z^7 + 40z^6 - 30z^5 \end{aligned}$$

$$\begin{aligned} 6. & 9g(9g^3 + 9g^2 - 8g) \\ & = 81g^4 + 81g^3 - 72g^2 \end{aligned}$$

$$\begin{aligned} 7. & 7s(-s^3 + 5s^2 - 3s) \\ & = -7s^4 + 35s^3 - 21s^2 \end{aligned}$$

$$\begin{aligned} 8. & -3c^5(9c^3 - 4c^2 + 7c) \\ & = -27c^8 + 12c^7 - 21c^6 \end{aligned}$$

$$\begin{aligned} 9. & -4n(-8n^5 - 7n^4 + 6n^3) \\ & = 32n^6 + 28n^5 - 24n^4 \end{aligned}$$

$$\begin{aligned} 10. & -5k^3(6k^3 - 2k^2 - 3k) \\ & = -30k^6 + 10k^5 + 15k^4 \end{aligned}$$

Multiplication d'un Monôme par un Trinôme (C)

Simplifiez chaque expression.

1. $7n(8n^2 - 8n + 3)$

2. $-9p^3(p^5 - p^4 - 8p^3)$

3. $-6s(-5s^3 - 2s^2 - 3s)$

4. $-7c^4(7c^4 - 8c^3 + 7c^2)$

5. $3k^2(4k^4 + 2k^3 - 5k^2)$

6. $-5s^3(7s^5 - 7s^4 - 5s^3)$

7. $5y^4(5y^2 + 4y - 7)$

8. $5k^5(3k^5 + 6k^4 - 8k^3)$

9. $-4w(7w^4 - 8w^3 + 9w^2)$

10. $9c^3(-c^2 + 5c + 5)$

Multiplication d'un Monôme par un Trinôme (C) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & 7n(8n^2 - 8n + 3) \\ &= 56n^3 - 56n^2 + 21n \end{aligned}$$

$$\begin{aligned} 2. & -9p^3(p^5 - p^4 - 8p^3) \\ &= -9p^8 + 9p^7 + 72p^6 \end{aligned}$$

$$\begin{aligned} 3. & -6s(-5s^3 - 2s^2 - 3s) \\ &= 30s^4 + 12s^3 + 18s^2 \end{aligned}$$

$$\begin{aligned} 4. & -7c^4(7c^4 - 8c^3 + 7c^2) \\ &= -49c^8 + 56c^7 - 49c^6 \end{aligned}$$

$$\begin{aligned} 5. & 3k^2(4k^4 + 2k^3 - 5k^2) \\ &= 12k^6 + 6k^5 - 15k^4 \end{aligned}$$

$$\begin{aligned} 6. & -5s^3(7s^5 - 7s^4 - 5s^3) \\ &= -35s^8 + 35s^7 + 25s^6 \end{aligned}$$

$$\begin{aligned} 7. & 5y^4(5y^2 + 4y - 7) \\ &= 25y^6 + 20y^5 - 35y^4 \end{aligned}$$

$$\begin{aligned} 8. & 5k^5(3k^5 + 6k^4 - 8k^3) \\ &= 15k^{10} + 30k^9 - 40k^8 \end{aligned}$$

$$\begin{aligned} 9. & -4w(7w^4 - 8w^3 + 9w^2) \\ &= -28w^5 + 32w^4 - 36w^3 \end{aligned}$$

$$\begin{aligned} 10. & 9c^3(-c^2 + 5c + 5) \\ &= -9c^5 + 45c^4 + 45c^3 \end{aligned}$$

Multiplication d'un Monôme par un Trinôme (D)

Simplifiez chaque expression.

1. $-5d^2(-4d^3 - 6d^2 - 7d)$

2. $-2m^2(-4m^4 - 8m^3 + 5m^2)$

3. $k^4(-9k^5 + k^4 + 5k^3)$

4. $-6h(-h^5 - 8h^4 + 6h^3)$

5. $2a^4(4a^4 + 4a^3 - 3a^2)$

6. $-8h^2(-8h^3 - 5h^2 - 2h)$

7. $-4k^2(-k^3 - 6k^2 - 8k)$

8. $6v^3(9v^3 + 5v^2 + 9v)$

9. $-3v^3(3v^4 + 7v^3 + 3v^2)$

10. $4m^2(-7m^2 - 9m + 7)$

Multiplication d'un Monôme par un Trinôme (D) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & -5d^2(-4d^3 - 6d^2 - 7d) \\ & = 20d^5 + 30d^4 + 35d^3 \end{aligned}$$

$$\begin{aligned} 2. & -2m^2(-4m^4 - 8m^3 + 5m^2) \\ & = 8m^6 + 16m^5 - 10m^4 \end{aligned}$$

$$\begin{aligned} 3. & k^4(-9k^5 + k^4 + 5k^3) \\ & = -9k^9 + k^8 + 5k^7 \end{aligned}$$

$$\begin{aligned} 4. & -6h(-h^5 - 8h^4 + 6h^3) \\ & = 6h^6 + 48h^5 - 36h^4 \end{aligned}$$

$$\begin{aligned} 5. & 2a^4(4a^4 + 4a^3 - 3a^2) \\ & = 8a^8 + 8a^7 - 6a^6 \end{aligned}$$

$$\begin{aligned} 6. & -8h^2(-8h^3 - 5h^2 - 2h) \\ & = 64h^5 + 40h^4 + 16h^3 \end{aligned}$$

$$\begin{aligned} 7. & -4k^2(-k^3 - 6k^2 - 8k) \\ & = 4k^5 + 24k^4 + 32k^3 \end{aligned}$$

$$\begin{aligned} 8. & 6v^3(9v^3 + 5v^2 + 9v) \\ & = 54v^6 + 30v^5 + 54v^4 \end{aligned}$$

$$\begin{aligned} 9. & -3v^3(3v^4 + 7v^3 + 3v^2) \\ & = -9v^7 - 21v^6 - 9v^5 \end{aligned}$$

$$\begin{aligned} 10. & 4m^2(-7m^2 - 9m + 7) \\ & = -28m^4 - 36m^3 + 28m^2 \end{aligned}$$

Multiplication d'un Monôme par un Trinôme (E)

Simplifiez chaque expression.

1. $-6a^4(-9a^3 + 9a^2 - 9a)$

2. $3x^4(-4x^4 - 6x^3 - 5x^2)$

3. $9z^5(5z^5 + 4z^4 - 7z^3)$

4. $-x^3(-7x^3 + 5x^2 - 4x)$

5. $-4h^2(2h^3 - 9h^2 + 9h)$

6. $-7c(2c^4 + 7c^3 + 9c^2)$

7. $-8p(-6p^3 - 7p^2 + 3p)$

8. $2q^3(q^3 + 3q^2 - q)$

9. $-4s^4(8s^3 - s^2 + 8s)$

10. $5c(-7c^2 + c - 6)$

Multiplication d'un Monôme par un Trinôme (E) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & -6a^4(-9a^3 + 9a^2 - 9a) \\ & = 54a^7 - 54a^6 + 54a^5 \end{aligned}$$

$$\begin{aligned} 2. & 3x^4(-4x^4 - 6x^3 - 5x^2) \\ & = -12x^8 - 18x^7 - 15x^6 \end{aligned}$$

$$\begin{aligned} 3. & 9z^5(5z^5 + 4z^4 - 7z^3) \\ & = 45z^{10} + 36z^9 - 63z^8 \end{aligned}$$

$$\begin{aligned} 4. & -x^3(-7x^3 + 5x^2 - 4x) \\ & = 7x^6 - 5x^5 + 4x^4 \end{aligned}$$

$$\begin{aligned} 5. & -4h^2(2h^3 - 9h^2 + 9h) \\ & = -8h^5 + 36h^4 - 36h^3 \end{aligned}$$

$$\begin{aligned} 6. & -7c(2c^4 + 7c^3 + 9c^2) \\ & = -14c^5 - 49c^4 - 63c^3 \end{aligned}$$

$$\begin{aligned} 7. & -8p(-6p^3 - 7p^2 + 3p) \\ & = 48p^4 + 56p^3 - 24p^2 \end{aligned}$$

$$\begin{aligned} 8. & 2q^3(q^3 + 3q^2 - q) \\ & = 2q^6 + 6q^5 - 2q^4 \end{aligned}$$

$$\begin{aligned} 9. & -4s^4(8s^3 - s^2 + 8s) \\ & = -32s^7 + 4s^6 - 32s^5 \end{aligned}$$

$$\begin{aligned} 10. & 5c(-7c^2 + c - 6) \\ & = -35c^3 + 5c^2 - 30c \end{aligned}$$

Multiplication d'un Monôme par un Trinôme (F)

Simplifiez chaque expression.

1. $-6h^5(9h^3 + 2h^2 - 6h)$

2. $g^2(3g^2 - 8g - 6)$

3. $-6b(-8b^5 + 4b^4 - 3b^3)$

4. $6c(8c^2 + 9c - 9)$

5. $-7y^3(7y^5 + 2y^4 - 3y^3)$

6. $-8f^2(-3f^2 - 7f - 8)$

7. $2r^4(-r^5 - 6r^4 + 6r^3)$

8. $8g^4(-8g^4 + 3g^3 + 4g^2)$

9. $3g(-3g^5 + 9g^4 - 9g^3)$

10. $-5n^3(5n^3 - 9n^2 + 3n)$

Multiplication d'un Monôme par un Trinôme (F) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & -6h^5(9h^3 + 2h^2 - 6h) \\ & = -54h^8 - 12h^7 + 36h^6 \end{aligned}$$

$$\begin{aligned} 2. & g^2(3g^2 - 8g - 6) \\ & = 3g^4 - 8g^3 - 6g^2 \end{aligned}$$

$$\begin{aligned} 3. & -6b(-8b^5 + 4b^4 - 3b^3) \\ & = 48b^6 - 24b^5 + 18b^4 \end{aligned}$$

$$\begin{aligned} 4. & 6c(8c^2 + 9c - 9) \\ & = 48c^3 + 54c^2 - 54c \end{aligned}$$

$$\begin{aligned} 5. & -7y^3(7y^5 + 2y^4 - 3y^3) \\ & = -49y^8 - 14y^7 + 21y^6 \end{aligned}$$

$$\begin{aligned} 6. & -8f^2(-3f^2 - 7f - 8) \\ & = 24f^4 + 56f^3 + 64f^2 \end{aligned}$$

$$\begin{aligned} 7. & 2r^4(-r^5 - 6r^4 + 6r^3) \\ & = -2r^9 - 12r^8 + 12r^7 \end{aligned}$$

$$\begin{aligned} 8. & 8g^4(-8g^4 + 3g^3 + 4g^2) \\ & = -64g^8 + 24g^7 + 32g^6 \end{aligned}$$

$$\begin{aligned} 9. & 3g(-3g^5 + 9g^4 - 9g^3) \\ & = -9g^6 + 27g^5 - 27g^4 \end{aligned}$$

$$\begin{aligned} 10. & -5n^3(5n^3 - 9n^2 + 3n) \\ & = -25n^6 + 45n^5 - 15n^4 \end{aligned}$$

Multiplication d'un Monôme par un Trinôme (G)

Simplifiez chaque expression.

1. $-9p^2(3p^2 + 8p - 3)$

2. $-2d^2(3d^5 + 5d^4 + 3d^3)$

3. $2t^3(-2t^3 - 7t^2 - 4t)$

4. $-7s^2(s^4 - 2s^3 + s^2)$

5. $g^5(-4g^3 + 5g^2 + 9g)$

6. $6a^2(-9a^3 - 9a^2 - 5a)$

7. $-6d(7d^5 - 7d^4 - 3d^3)$

8. $8c^3(-6c^4 - 5c^3 - 5c^2)$

9. $3h^5(-3h^3 + 8h^2 - 9h)$

10. $-5h^3(-2h^5 + 9h^4 - 5h^3)$

Multiplication d'un Monôme par un Trinôme (G) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & -9p^2(3p^2 + 8p - 3) \\ & = -27p^4 - 72p^3 + 27p^2 \end{aligned}$$

$$\begin{aligned} 2. & -2d^2(3d^5 + 5d^4 + 3d^3) \\ & = -6d^7 - 10d^6 - 6d^5 \end{aligned}$$

$$\begin{aligned} 3. & 2t^3(-2t^3 - 7t^2 - 4t) \\ & = -4t^6 - 14t^5 - 8t^4 \end{aligned}$$

$$\begin{aligned} 4. & -7s^2(s^4 - 2s^3 + s^2) \\ & = -7s^6 + 14s^5 - 7s^4 \end{aligned}$$

$$\begin{aligned} 5. & g^5(-4g^3 + 5g^2 + 9g) \\ & = -4g^8 + 5g^7 + 9g^6 \end{aligned}$$

$$\begin{aligned} 6. & 6a^2(-9a^3 - 9a^2 - 5a) \\ & = -54a^5 - 54a^4 - 30a^3 \end{aligned}$$

$$\begin{aligned} 7. & -6d(7d^5 - 7d^4 - 3d^3) \\ & = -42d^6 + 42d^5 + 18d^4 \end{aligned}$$

$$\begin{aligned} 8. & 8c^3(-6c^4 - 5c^3 - 5c^2) \\ & = -48c^7 - 40c^6 - 40c^5 \end{aligned}$$

$$\begin{aligned} 9. & 3h^5(-3h^3 + 8h^2 - 9h) \\ & = -9h^8 + 24h^7 - 27h^6 \end{aligned}$$

$$\begin{aligned} 10. & -5h^3(-2h^5 + 9h^4 - 5h^3) \\ & = 10h^8 - 45h^7 + 25h^6 \end{aligned}$$

Multiplication d'un Monôme par un Trinôme (H)

Simplifiez chaque expression.

1. $-8a^3(2a^5 + 7a^4 - 3a^3)$

2. $8k^2(-5k^2 - 4k + 7)$

3. $5p^4(-2p^4 - p^3 - p^2)$

4. $-4g^3(8g^2 - 2g + 3)$

5. $4k^4(-3k^5 - 3k^4 + 5k^3)$

6. $6v^3(-4v^5 - 8v^4 - 6v^3)$

7. $-8d(-4d^2 - 5d - 2)$

8. $9y^2(5y^2 - 8y - 9)$

9. $3c(-9c^4 - 3c^3 - 8c^2)$

10. $-8v^5(-v^5 - 5v^4 - 8v^3)$

Multiplication d'un Monôme par un Trinôme (H) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & -8a^3(2a^5 + 7a^4 - 3a^3) \\ & = -16a^8 - 56a^7 + 24a^6 \end{aligned}$$

$$\begin{aligned} 2. & 8k^2(-5k^2 - 4k + 7) \\ & = -40k^4 - 32k^3 + 56k^2 \end{aligned}$$

$$\begin{aligned} 3. & 5p^4(-2p^4 - p^3 - p^2) \\ & = -10p^8 - 5p^7 - 5p^6 \end{aligned}$$

$$\begin{aligned} 4. & -4g^3(8g^2 - 2g + 3) \\ & = -32g^5 + 8g^4 - 12g^3 \end{aligned}$$

$$\begin{aligned} 5. & 4k^4(-3k^5 - 3k^4 + 5k^3) \\ & = -12k^9 - 12k^8 + 20k^7 \end{aligned}$$

$$\begin{aligned} 6. & 6v^3(-4v^5 - 8v^4 - 6v^3) \\ & = -24v^8 - 48v^7 - 36v^6 \end{aligned}$$

$$\begin{aligned} 7. & -8d(-4d^2 - 5d - 2) \\ & = 32d^3 + 40d^2 + 16d \end{aligned}$$

$$\begin{aligned} 8. & 9y^2(5y^2 - 8y - 9) \\ & = 45y^4 - 72y^3 - 81y^2 \end{aligned}$$

$$\begin{aligned} 9. & 3c(-9c^4 - 3c^3 - 8c^2) \\ & = -27c^5 - 9c^4 - 24c^3 \end{aligned}$$

$$\begin{aligned} 10. & -8v^5(-v^5 - 5v^4 - 8v^3) \\ & = 8v^{10} + 40v^9 + 64v^8 \end{aligned}$$

Multiplication d'un Monôme par un Trinôme (I)

Simplifiez chaque expression.

1. $2v(-v^5 - 7v^4 + 2v^3)$

2. $7p^2(5p^4 + 5p^3 + p^2)$

3. $9s^4(-6s^4 + 9s^3 - 6s^2)$

4. $2a^5(2a^5 + 4a^4 - 5a^3)$

5. $t(6t^3 - 9t^2 + t)$

6. $-7v^4(8v^4 - 3v^3 + 2v^2)$

7. $-3s^4(6s^4 + 2s^3 + 2s^2)$

8. $-7m^4(-6m^4 - 4m^3 - 8m^2)$

9. $m^3(m^2 - 4m - 1)$

10. $-6h(9h^5 - 3h^4 - 6h^3)$

Multiplication d'un Monôme par un Trinôme (I) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & 2v(-v^5 - 7v^4 + 2v^3) \\ &= -2v^6 - 14v^5 + 4v^4 \end{aligned}$$

$$\begin{aligned} 2. & 7p^2(5p^4 + 5p^3 + p^2) \\ &= 35p^6 + 35p^5 + 7p^4 \end{aligned}$$

$$\begin{aligned} 3. & 9s^4(-6s^4 + 9s^3 - 6s^2) \\ &= -54s^8 + 81s^7 - 54s^6 \end{aligned}$$

$$\begin{aligned} 4. & 2a^5(2a^5 + 4a^4 - 5a^3) \\ &= 4a^{10} + 8a^9 - 10a^8 \end{aligned}$$

$$\begin{aligned} 5. & t(6t^3 - 9t^2 + t) \\ &= 6t^4 - 9t^3 + t^2 \end{aligned}$$

$$\begin{aligned} 6. & -7v^4(8v^4 - 3v^3 + 2v^2) \\ &= -56v^8 + 21v^7 - 14v^6 \end{aligned}$$

$$\begin{aligned} 7. & -3s^4(6s^4 + 2s^3 + 2s^2) \\ &= -18s^8 - 6s^7 - 6s^6 \end{aligned}$$

$$\begin{aligned} 8. & -7m^4(-6m^4 - 4m^3 - 8m^2) \\ &= 42m^8 + 28m^7 + 56m^6 \end{aligned}$$

$$\begin{aligned} 9. & m^3(m^2 - 4m - 1) \\ &= m^5 - 4m^4 - m^3 \end{aligned}$$

$$\begin{aligned} 10. & -6h(9h^5 - 3h^4 - 6h^3) \\ &= -54h^6 + 18h^5 + 36h^4 \end{aligned}$$

Multiplication d'un Monôme par un Trinôme (J)

Simplifiez chaque expression.

1. $-9m(5m^3 - 5m^2 - 7m)$

2. $-8z(-9z^3 + 3z^2 + 9z)$

3. $-8n^4(2n^4 - 3n^3 - 8n^2)$

4. $7m^2(m^3 + 5m^2 + 8m)$

5. $9d^4(6d^3 - 8d^2 + 7d)$

6. $-5d^5(-3d^2 - 9d + 9)$

7. $8m(-5m^2 - 3m - 3)$

8. $9f^5(-8f^2 + 8f + 4)$

9. $-3m^3(-2m^4 + 4m^3 - 7m^2)$

10. $-8s^3(8s^2 + 3s + 1)$

Multiplication d'un Monôme par un Trinôme (J) Réponses

Simplifiez chaque expression.

$$\begin{aligned} 1. & -9m(5m^3 - 5m^2 - 7m) \\ & = -45m^4 + 45m^3 + 63m^2 \end{aligned}$$

$$\begin{aligned} 2. & -8z(-9z^3 + 3z^2 + 9z) \\ & = 72z^4 - 24z^3 - 72z^2 \end{aligned}$$

$$\begin{aligned} 3. & -8n^4(2n^4 - 3n^3 - 8n^2) \\ & = -16n^8 + 24n^7 + 64n^6 \end{aligned}$$

$$\begin{aligned} 4. & 7m^2(m^3 + 5m^2 + 8m) \\ & = 7m^5 + 35m^4 + 56m^3 \end{aligned}$$

$$\begin{aligned} 5. & 9d^4(6d^3 - 8d^2 + 7d) \\ & = 54d^7 - 72d^6 + 63d^5 \end{aligned}$$

$$\begin{aligned} 6. & -5d^5(-3d^2 - 9d + 9) \\ & = 15d^7 + 45d^6 - 45d^5 \end{aligned}$$

$$\begin{aligned} 7. & 8m(-5m^2 - 3m - 3) \\ & = -40m^3 - 24m^2 - 24m \end{aligned}$$

$$\begin{aligned} 8. & 9f^5(-8f^2 + 8f + 4) \\ & = -72f^7 + 72f^6 + 36f^5 \end{aligned}$$

$$\begin{aligned} 9. & -3m^3(-2m^4 + 4m^3 - 7m^2) \\ & = 6m^7 - 12m^6 + 21m^5 \end{aligned}$$

$$\begin{aligned} 10. & -8s^3(8s^2 + 3s + 1) \\ & = -64s^5 - 24s^4 - 8s^3 \end{aligned}$$