

Simplify Expressions 4

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$$1) w^4 (- 5w - 9) (- 2w^4 - 2w^3)$$

$$2) 7q^2 (- 2q + 7) (- 3q^5 + 9q^4)$$

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

$$4) 4w^4 (- 9w^5 - 9w^4) (8w^2 - 8w)$$

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$$1) w^4 (-5w - 9) (-2w^4 - 2w^3)$$

$$10w^9 + 28w^8 + 18w^7$$

$$2) 7q^2 (-2q + 7) (-3q^5 + 9q^4)$$

$$42q^8 - 273q^7 + 441q^6$$

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

$$-24c^{11} + 68c^{10} + 12c^9$$

$$4) 4w^4 (-9w^5 - 9w^4) (8w^2 - 8w)$$

$$-288w^{11} + 288w^9$$