

- (a)  $(-2a^2b^3)^2 = 4a^4b^6$
- (b)  $(-2a^2b^3)^3 = -8a^6b^9$
- (c)  $(-2a^2b^3)^4 = 16a^8b^{12}$
- (d)  $(-2a^2b^3)^5 = -32a^{10}b^{15}$
- (e)  $(-2a^2b^3)^6 = 64a^{12}b^{18}$

**EX.2** Simplify completely:

(a)  $(x^2y^3)^2 = (x^2)^2 (y^3)^2 = x^4y^6$

(b)

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(c)

(d)  $(-2 a^2 b^3)^4 = (-2)^4 a^{2 \times 4} b^{3 \times 4} = 16 a^8 b^{12}$

(e)  $(-2a^2b^3)^3 = (-2)^3 a^{2 \times 3} b^{3 \times 3} = -8 a^6 b^9$

(f)  $(-2x^2y^3)^4 = (-2)^4 x^{2 \times 4} y^{3 \times 4} = 16 x^8 y^{12}$

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