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因数分解せよ.

(1) $54x^3 + 2y^3$

$$= 2(3x + 4)(4x^{2} - 3x4 + 4^{2})$$

$$= 2(21x^{3} + 4^{3})$$

次の計算をせよ.

(2)
$$2x^3y^2 \times (-3xy^5)^2$$

$$= 18x_2 x_{15}$$

$$= 5x_3 x_5 x 4x_5 x_{10}$$

a+b=-3, $ab=\sqrt{2}$ とするとき,以下を求めよ.

$$= (a+b)^{2} - 2ab$$

$$= 9 - 2\sqrt{2}$$

$$= \frac{a + \frac{1}{b}}{ab} = \frac{3\sqrt{2}}{\sqrt{2}} = -\frac{3\sqrt{2}}{\sqrt{2}}$$

$$= (a + b)^{3} - 3 ab (a + b)$$

$$= -27 + 95$$