因数分解せよ.

(1) 
$$x^2 - 5xy + 2x^2y + 6y^2 - 5xy^2 + x^2y^2$$

$$\frac{1}{120} = (3+1)^{3} \times_{3} + (-24-24^{5}) \times + 94^{5}$$

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

$$= \{(x-i) - (A+3) / \{(x-i)^2 + (X-i) / (A+3) + (A+3)^2 \}$$

$$= (x-4-4)(x_5+4_5+x+24+x4+1)$$

(3) 
$$x^3 + y^3 + z^3 - 3xyz$$

= 
$$(x+y+z)(x^2+y^2+z^2-xy-yz-zx)$$

(4) 簡単にせよ.

$$\sqrt{10 - 2\sqrt{21}}$$

(5) 平方完成し、頂点の座標を求めよ.

$$y = -2x^{2} + 4x + 7$$

$$= -2 \int x^{2} - 2x \int + 7$$

$$= -2 \int (x - 1)^{2} - 1 \int + 7$$

$$= -2 (x - 1)^{2} + 9$$

頂点 (1.9)