

1 (1) $x^4 - 4x^3 + 10x^2 - 12x + 9$

(2) $(x - a - 3)(x - a + 1)$

2 頂点(1, -1)

3 (1) $R=4$

(2) $c = 2\sqrt{3}, \triangle ABC = 2\sqrt{3}$

4 (1) 6.0

(2) 9

(3) 3.5

5 (1) $\frac{216}{625}$

(2) $\frac{609}{625}$

6 $n=14, 56, 126, 504$