

2015-(D)

◎数学 解答

[1] (1) 30 $2\sqrt{3}$ $\frac{\sqrt{3}}{3}$ 90 $\frac{\sqrt{3}}{3}$

(2) 21 20 14 27 175

[2] (1) $2t$ $\frac{t^2-2}{t-1}$ -1 $\frac{1-\sqrt{3}}{2}$ $\frac{1+\sqrt{3}}{2}$

(2) 3 11 $\frac{23}{77}$ $2\sqrt{6}$ $-\frac{1}{3}$

[3] (1) $(-\sqrt{2t}, -2t - 2\sqrt{2t}), (\sqrt{2t}, -2t + 2\sqrt{2t})$

(2) $\frac{-t^3-3t^2-3t+8+2\sqrt{2t}(t-3)}{3} (0 \leq t \leq 1)$

$\frac{3t^2-12t+16+2\sqrt{2t}(t-3)}{3} (1 \leq t \leq 2)$

$0 (2 \leq t)$