

# 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)  $\frac{-t^3+3t^2+(3-4\sqrt{2t})t+2}{3} \quad (0 \leq t \leq 1)$

$$\frac{3t^2-4t\sqrt{2t}+4}{3} \quad (1 \leq t \leq 2)$$

$$0 \quad (2 \leq t)$$