

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

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

$0 (2 \leq t)$