

**[I]**

(1)

(あ)	(い)	(う)	(え)
$\frac{3}{2}$	$\frac{\sqrt{3}}{6}$	$\frac{5 - \sqrt{7}}{2}$	$\frac{5\sqrt{3} - \sqrt{21}}{6}$

(2)

(お)	(か)	(き)	(く)
$-\frac{2X}{3Y}$	$\frac{\sqrt{6}}{2}$	1	$\sqrt{6}$

(3)

(け)	(こ)
$\frac{4\sqrt{3}}{9}$	$\frac{2}{3}$

**[II]**

(1)

(あ)	(い)	(う)	(え)	(お)	(か)
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{6}$	$\frac{2}{3}$	0	$\frac{1}{2}$

(2)

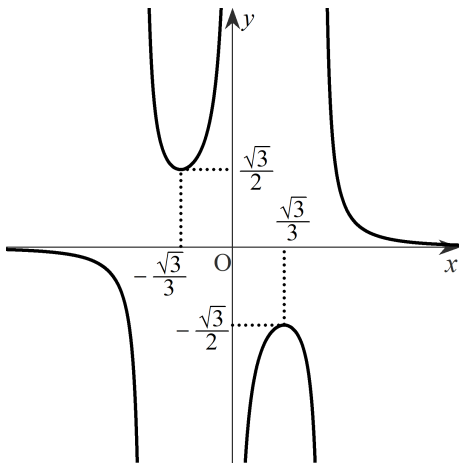
(き)	(く)	(け)	(こ)	(さ)	(し)	(す)	(せ)
$\frac{1}{6}$	$\frac{1}{2}$	$\frac{3}{5}$	$\frac{2}{5}$	$\frac{1}{6}$	$\frac{1}{5}$	2	$\frac{1}{3}$

## [III]

(1)

(あ)	(い)	(う)	(え)
$-\frac{\sqrt{3}}{3}$	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{3}}{3}$	$-\frac{\sqrt{3}}{2}$

(2)



(3)

(お)
$m < -\frac{4}{3}$

(4)

(か)	(き)	(く)
$\frac{1}{6}$	$-\frac{1}{3}$	$\frac{1}{6}$

(5)

(け)	(こ)
$\frac{1}{6} \log \left( \frac{3m}{2} + 1 + \sqrt{\frac{9m^2}{4} + 3m} \right)$	1

## [IV]

(1)

(あ)	(い)	(う)	(え)	(お)	(か)	(き)	(く)
$5t - 8$	$-t$	$3t - 6$	$2t - 3$	$t$	$-t$	$t$	$t$

(2)

(け)	(こ)
$-8t^2 + 24t - 12$	8

(3)

(さ)	(し)	(す)	(せ)	(そ)
$\triangle ABD$	$\triangle ACD$	$\triangle BCD$	$\frac{3}{5}$	$\frac{4}{5}$

(さ), (し), (す) は順不同

(4)

(た)	(ち)
$\frac{11}{7}$	$\frac{44}{7}$