(大問 1)[計 70 点]

①(1) [4点]	10	①(2) [4 点] $\frac{27}{125}$
①(3) [4点]	а	
②(1) [5点]	x = 2, 4	②(2) [5 点] $x > -\frac{2}{3}$
②(3) [5 点]	$x \ge 1$	
③(1) [4点]	1	③(2) $[4 点]$ $\frac{9}{2}$
④(1) [5 点]	x = 4	④(2) [5 点] 1 < x < 2
④(3) [5 点]	<i>x</i> > 3	④(4) [10 点] $\frac{1}{8} < x < 2$
⑤(1) [10 点]	10 桁	

## (大問 2)[計 30 点]

①(1)[5 点] $0 \le \theta \le \frac{5}{6}\pi$ , $\frac{7}{6}\pi \le \theta < 2\pi$	①(2) [5 点] $\theta = \frac{\pi}{6}, \frac{5}{6}\pi, \frac{3}{2}\pi$
②(1) [5 点] $\frac{5-12\sqrt{3}}{26}$	②(2) [5 点] $\frac{12-5\sqrt{3}}{26}$
③ [10 点] $x = \frac{\pi}{6}, \frac{\pi}{2}$	