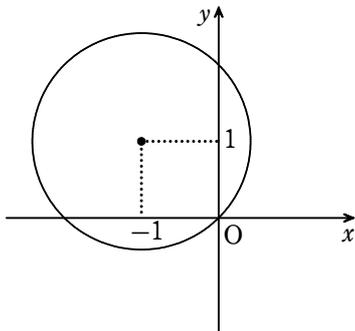


数学≪マーク+記述≫前期① 【解答例】

- 4 問1 (1)  $a_3=0, a_4=1, a_6=1, a_7=2$   
 (2) 17  
 (3) 3611

- 問2 (1)  $(m-1)2^{m-1}$   
 (2)  $S=(m-2) \cdot 2^m + 2$

5 問1



問2  $\frac{dx}{dt} = -3\sqrt{2} \sin 3t, \frac{dy}{dt} = 3\sqrt{2} \cos 3t$

$$\frac{d^2x}{dt^2} = -9(x+1), \frac{d^2y}{dt^2} = -9(y-1)$$

問3  $\vec{v} = (-3\sqrt{2} \sin 3t, 3\sqrt{2} \cos 3t)$  または  $(-3(y-1), 3(x+1)), |\vec{v}| = 3\sqrt{2}$

問4  $\vec{\alpha} = (-9\sqrt{2} \cos 3t, -9\sqrt{2} \sin 3t)$  または  $(-9(x+1), -9(y-1)), |\vec{\alpha}| = 9\sqrt{2}$

問5  $\frac{\pi}{2}$

問6  $\frac{3}{2}\sqrt{2}\pi$