

反射テスト 三角比 逆算 sin 02

1. 次の条件を満たす θ を求めよ. ただし, $0^\circ \leq \theta \leq 180^\circ$. (S級 40秒, A級 1分, B級 2分, C級 3分)

(1) $\sin \theta = \frac{1}{2}$

(2) $\sin \theta = 0$

(3) $\sin \theta = \frac{\sqrt{3}}{2}$

(4) $\sin \theta = 1$

(5) $\sin \theta = \frac{1}{\sqrt{2}}$

(6) $\sin \theta = \frac{\sqrt{6} + \sqrt{2}}{4}$

2. 次の条件を満たす θ を求めよ. ただし, $0^\circ \leq \theta \leq 180^\circ$. (S 級 35 秒, A 級 1 分, B 級 2 分, C 級 3 分)

(1) $\sin \theta = \frac{1}{\sqrt{2}}$

(2) $\sin \theta = 1$

(3) $\sin \theta = \frac{1}{2}$

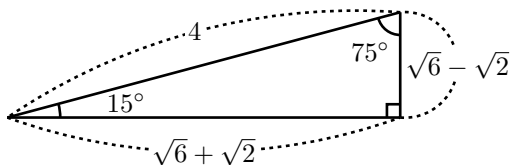
(4) $\sin \theta = 0$

(5) $\sin \theta = \frac{\sqrt{3}}{2}$

(6) $\sin \theta = \frac{\sqrt{6} - \sqrt{2}}{4}$

反射テスト 三角比 逆算 sin 02 解答解説

1. 次の条件を満たす θ を求めよ. ただし, $0^\circ \leq \theta \leq 180^\circ$. (S級 40秒, A級 1分, B級 2分, C級 3分)



★ $15^\circ, 75^\circ, 90^\circ$ の直角三角形の三辺比は, 短い潤に $(\sqrt{6} - \sqrt{2}) : (\sqrt{6} + \sqrt{2}) : 4$

(1) $\sin \theta = \frac{1}{2}$

$\theta = 30^\circ, 150^\circ$

(2) $\sin \theta = 0$

$\theta = 0^\circ, 180^\circ$

(3) $\sin \theta = \frac{\sqrt{3}}{2}$

$\theta = 60^\circ, 120^\circ$

(4) $\sin \theta = 1$

$\theta = 90^\circ$

(5) $\sin \theta = \frac{1}{\sqrt{2}}$

$\theta = 45^\circ, 135^\circ$

(6) $\sin \theta = \frac{\sqrt{6} + \sqrt{2}}{4}$

$\theta = 75^\circ, 105^\circ$

2. 次の条件を満たす θ を求めよ. ただし, $0^\circ \leq \theta \leq 180^\circ$. (S 級 35 秒, A 級 1 分, B 級 2 分, C 級 3 分)

(1) $\sin \theta = \frac{1}{\sqrt{2}}$

$\theta = 45^\circ, 135^\circ$

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$\theta = 30^\circ, 150^\circ$

(4) $\sin \theta = 0$

$\theta = 0^\circ, 180^\circ$

(5) $\sin \theta = \frac{\sqrt{3}}{2}$

$\theta = 60^\circ, 120^\circ$

(6) $\sin \theta = \frac{\sqrt{6} - \sqrt{2}}{4}$

$\theta = 15^\circ, 165^\circ$