三角方程式１の解答

氏名 _____

1. $0° \leqq \theta < 360°$のとき、次の方程式を解け。

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

答. $45°$, $135°$

(2) $\sin\theta = -\dfrac{1}{2}$

答. $210°$, $330°$

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

答. $60°$, $120°$

(4) $\sin\theta = \dfrac{1}{2}$

答. $30°$, $150°$

(5) $\sin\theta = -\dfrac{\sqrt{2}}{2}$

答. $225°$, $315°$

(6) $\sin\theta = -1$

答. $270°$

(7) $\sin\theta = -\dfrac{\sqrt{3}}{2}$

答. $240°$, $300°$

(8) $\cos\theta = \dfrac{1}{2}$

答. $60°$, $300°$

(9) $\cos\theta = -\dfrac{\sqrt{3}}{2}$

答. $150°$, $210°$

(10) $\cos\theta = 1$

答. $0°$

(11) $\cos\theta = \dfrac{\sqrt{3}}{2}$

答. $30°$, $330°$

(12) $\cos\theta = -\dfrac{\sqrt{2}}{2}$

答. $135°$, $225°$

(13) $\cos\theta = -1$

答. $180°$

(14) $\cos\theta = -\dfrac{1}{2}$

答. $120°$, $240°$

(15) $\tan\theta = -1$

答. $135°$, $315°$

(16) $\tan\theta = -\dfrac{\sqrt{3}}{3}$

答. $150°$, $330°$

(17) $\tan\theta = \dfrac{\sqrt{3}}{3}$

答. $30°$, $210°$

(18) $\tan\theta = \sqrt{3}$

答. $60°$, $240°$

(19) $\tan\theta = -\sqrt{3}$

答. $120°$, $300°$

(20) $\tan\theta = 1$

答. $45°$, $225°$

三角方程式２の解答

氏名 _____

1. $0° \leqq \theta < 360°$のとき、次の方程式を解け。

(1) $\sin\theta = -1$

答．$270°$

(2) $\sin\theta = \dfrac{\sqrt{2}}{2}$

答．$45°$, $135°$

(3) $\sin\theta = 0$

答．$0°$, $180°$

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

答．$225°$, $315°$

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

答．$240°$, $300°$

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

答．$60°$, $120°$

(7) $\sin\theta = 1$

答．$90°$

(8) $\cos\theta = \dfrac{\sqrt{2}}{2}$

答．$45°$, $315°$

(9) $\cos\theta = \dfrac{1}{2}$

答．$60°$, $300°$

(10) $\cos\theta = \dfrac{\sqrt{3}}{2}$

答．$30°$, $330°$

(11) $\cos\theta = -1$

答．$180°$

(12) $\cos\theta = 0$

答．$90°$, $270°$

(13) $\cos\theta = -\dfrac{\sqrt{2}}{2}$

答．$135°$, $225°$

(14) $\tan\theta = \sqrt{3}$

答．$60°$, $240°$

(15) $\tan\theta = -\sqrt{3}$

答．$120°$, $300°$

(16) $\tan\theta = 0$

答．$0°$, $180°$

(17) $\tan\theta = -1$

答．$135°$, $315°$

(18) $\tan\theta = 1$

答．$45°$, $225°$

(19) $\tan\theta = \dfrac{\sqrt{3}}{3}$

答．$30°$, $210°$

(20) $\tan\theta = -\dfrac{\sqrt{3}}{3}$

答．$150°$, $330°$

三角方程式３の解答

氏名 _____

1. $0° \leqq \theta < 360°$のとき、次の方程式を解け。

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

答．$30°$, $150°$

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

答．$240°$, $300°$

(3) $\sin\theta = 0$

答．$0°$, $180°$

(4) $\sin\theta = 1$

答．$90°$

(5) $\sin\theta = -\dfrac{1}{2}$

答．$210°$, $330°$

(6) $\sin\theta = -1$

答．$270°$

(7) $\cos\theta = \dfrac{\sqrt{2}}{2}$

答．$45°$, $315°$

(8) $\cos\theta = 0$

答．$90°$, $270°$

(9) $\cos\theta = -\dfrac{\sqrt{2}}{2}$

答．$135°$, $225°$

(10) $\cos\theta = 1$

答．$0°$

(11) $\cos\theta = \dfrac{\sqrt{3}}{2}$

答．$30°$, $330°$

(12) $\cos\theta = -\dfrac{1}{2}$

答．$120°$, $240°$

(13) $\cos\theta = -1$

答．$180°$

(14) $\tan\theta = -\dfrac{\sqrt{3}}{3}$

答．$150°$, $330°$

(15) $\tan\theta = \sqrt{3}$

答．$60°$, $240°$

(16) $\tan\theta = 0$

答．$0°$, $180°$

(17) $\tan\theta = -1$

答．$135°$, $315°$

(18) $\tan\theta = \dfrac{\sqrt{3}}{3}$

答．$30°$, $210°$

(19) $\tan\theta = 1$

答．$45°$, $225°$

(20) $\tan\theta = -\sqrt{3}$

答．$120°$, $300°$

三角方程式４の解答

氏名 _____

1. $0° \leqq \theta < 360°$のとき、次の方程式を解け。

(1) $2\sin\theta - \sqrt{3} = 0$

答. $60°$, $120°$

(2) $2\sin\theta = 1$

答. $30°$, $150°$

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

答. $240°$, $300°$

(4) $2\sin\theta = -1$

答. $210°$, $330°$

(5) $\sqrt{2}\sin\theta - 1 = 0$

答. $45°$, $135°$

(6) $2\sin\theta + \sqrt{2} = 0$

答. $225°$, $315°$

(7) $2\sin\theta = \sqrt{2}$

答. $45°$, $135°$

(8) $2\cos\theta = -\sqrt{2}$

答. $135°$, $225°$

(9) $2\cos\theta + \sqrt{3} = 0$

答. $150°$, $210°$

(10) $2\cos\theta - \sqrt{3} = 0$

答. $30°$, $330°$

(11) $\cos\theta = 0$

答. $90°$, $270°$

(12) $\cos\theta - 1 = 0$

答. $0°$

(13) $2\cos\theta + 1 = 0$

答. $120°$, $240°$

(14) $\sqrt{2}\cos\theta + 1 = 0$

答. $135°$, $225°$

(15) $\tan\theta - 1 = 0$

答. $45°$, $225°$

(16) $\tan\theta - \sqrt{3} = 0$

答. $60°$, $240°$

(17) $\tan\theta = 0$

答. $0°$, $180°$

(18) $3\tan\theta = -\sqrt{3}$

答. $150°$, $330°$

(19) $\tan\theta + 1 = 0$

答. $135°$, $315°$

(20) $\tan\theta + \sqrt{3} = 0$

答. $120°$, $300°$

三角方程式５の解答

氏名 _____

1. $0° \leqq \theta < 360°$のとき、次の方程式を解け。

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

答. $240°$, $300°$

(2) $\sqrt{2}\sin\theta + 1 = 0$

答. $225°$, $315°$

(3) $2\sin\theta - \sqrt{2} = 0$

答. $45°$, $135°$

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

答. $225°$, $315°$

(5) $2\sin\theta - 1 = 0$

答. $30°$, $150°$

(6) $\sin\theta = 0$

答. $0°$, $180°$

(7) $2\sin\theta + 1 = 0$

答. $210°$, $330°$

(8) $\cos\theta = 0$

答. $90°$, $270°$

(9) $2\cos\theta = 1$

答. $60°$, $300°$

(10) $\sqrt{2}\cos\theta = -1$

答. $135°$, $225°$

(11) $2\cos\theta = -\sqrt{3}$

答. $150°$, $210°$

(12) $\cos\theta - 1 = 0$

答. $0°$

(13) $2\cos\theta + \sqrt{2} = 0$

答. $135°$, $225°$

(14) $\tan\theta = -\sqrt{3}$

答. $120°$, $300°$

(15) $\tan\theta = 0$

答. $0°$, $180°$

(16) $\tan\theta = 1$

答. $45°$, $225°$

(17) $\tan\theta = -1$

答. $135°$, $315°$

(18) $\tan\theta = \sqrt{3}$

答. $60°$, $240°$

(19) $3\tan\theta = -\sqrt{3}$

答. $150°$, $330°$

(20) $3\tan\theta = \sqrt{3}$

答. $30°$, $210°$

三角方程式 6 の解答

氏名 _____

1. $0° \leqq \theta < 360°$のとき、次の方程式を解け。

(1) $2\sin\theta = -1$

答. $210°$, $330°$

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

答. $240°$, $300°$

(3) $2\sin\theta - 1 = 0$

答. $30°$, $150°$

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

答. $45°$, $135°$

(5) $2\sin\theta - \sqrt{3} = 0$

答. $60°$, $120°$

(6) $\sin\theta + 1 = 0$

答. $270°$

(7) $2\cos\theta - \sqrt{3} = 0$

答. $30°$, $330°$

(8) $\sqrt{2}\cos\theta + 1 = 0$

答. $135°$, $225°$

(9) $\cos\theta - 1 = 0$

答. $0°$

(10) $\cos\theta = 0$

答. $90°$, $270°$

(11) $2\cos\theta - 1 = 0$

答. $60°$, $300°$

(12) $2\cos\theta = \sqrt{2}$

答. $45°$, $315°$

(13) $2\cos\theta = -\sqrt{3}$

答. $150°$, $210°$

(14) $\tan\theta = \sqrt{3}$

答. $60°$, $240°$

(15) $\tan\theta = -\sqrt{3}$

答. $120°$, $300°$

(16) $3\tan\theta = \sqrt{3}$

答. $30°$, $210°$

(17) $\tan\theta = 1$

答. $45°$, $225°$

(18) $\tan\theta = 0$

答. $0°$, $180°$

(19) $\tan\theta = -1$

答. $135°$, $315°$

(20) $3\tan\theta = -\sqrt{3}$

答. $150°$, $330°$

三角方程式７の解答

氏名 _____

1. $0° \leqq \theta < 360°$のとき、次の方程式を解け。

(1) $\sin\theta = 0$

答. $0°$, $180°$

(2) $2\sin\theta - 1 = 0$

答. $30°$, $150°$

(3) $\tan\theta = 0$

答. $0°$, $180°$

(4) $\tan\theta = \sqrt{3}$

答. $60°$, $240°$

(5) $2\cos\theta = -\sqrt{3}$

答. $150°$, $210°$

(6) $\tan\theta = 1$

答. $45°$, $225°$

(7) $3\tan\theta - \sqrt{3} = 0$

答. $30°$, $210°$

(8) $\sqrt{2}\sin\theta - 1 = 0$

答. $45°$, $135°$

(9) $\cos\theta = 0$

答. $90°$, $270°$

(10) $\sqrt{3}\tan\theta + 1 = 0$

答. $150°$, $330°$

(11) $\tan\theta + \sqrt{3} = 0$

答. $120°$, $300°$

(12) $2\cos\theta = -1$

答. $120°$, $240°$

(13) $3\tan\theta + \sqrt{3} = 0$

答. $150°$, $330°$

(14) $2\sin\theta = \sqrt{3}$

答. $60°$, $120°$

(15) $2\sin\theta + \sqrt{2} = 0$

答. $225°$, $315°$

(16) $2\sin\theta + \sqrt{3} = 0$

答. $240°$, $300°$

(17) $\sqrt{2}\cos\theta = 1$

答. $45°$, $315°$

(18) $2\sin\theta + 1 = 0$

答. $210°$, $330°$

(19) $2\sin\theta - \sqrt{2} = 0$

答. $45°$, $135°$

(20) $2\cos\theta - \sqrt{3} = 0$

答. $30°$, $330°$

三角方程式８の解答

氏名 _____

1. $0° \leqq \theta < 360°$のとき、次の方程式を解け。

(1) $2\sin\theta + \sqrt{2} = 0$

答. $225°$, $315°$

(2) $\cos\theta = 0$

答. $90°$, $270°$

(3) $\sin\theta = 0$

答. $0°$, $180°$

(4) $2\sin\theta - \sqrt{2} = 0$

答. $45°$, $135°$

(5) $\tan\theta - 1 = 0$

答. $45°$, $225°$

(6) $\tan\theta = \sqrt{3}$

答. $60°$, $240°$

(7) $3\tan\theta - \sqrt{3} = 0$

答. $30°$, $210°$

(8) $\tan\theta + 1 = 0$

答. $135°$, $315°$

(9) $2\cos\theta = 1$

答. $60°$, $300°$

(10) $2\cos\theta - \sqrt{2} = 0$

答. $45°$, $315°$

(11) $\tan\theta + \sqrt{3} = 0$

答. $120°$, $300°$

(12) $2\sin\theta = 1$

答. $30°$, $150°$

(13) $3\tan\theta + \sqrt{3} = 0$

答. $150°$, $330°$

(14) $2\cos\theta + \sqrt{3} = 0$

答. $150°$, $210°$

(15) $2\cos\theta = -\sqrt{2}$

答. $135°$, $225°$

(16) $2\cos\theta - \sqrt{3} = 0$

答. $30°$, $330°$

(17) $\cos\theta = 1$

答. $0°$

(18) $2\sin\theta = -1$

答. $210°$, $330°$

(19) $\tan\theta = 0$

答. $0°$, $180°$

(20) $\sin\theta = 1$

答. $90°$