

複素数 ($\sqrt{-a}$ を含むかけ算わり算)1 の解答

氏名 _____

1. 次の式を計算せよ。

(1) $\sqrt{8}\sqrt{-10}$

答. $4\sqrt{5}i$

(2) $\sqrt{-8}\sqrt{10}$

答. $4\sqrt{5}i$

(3) $\sqrt{-2}\sqrt{4}$

答. $2\sqrt{2}i$

(4) $\sqrt{2}\sqrt{-12}$

答. $2\sqrt{6}i$

(5) $\sqrt{2}\sqrt{-4}$

答. $2\sqrt{2}i$

(6) $\sqrt{-2}\sqrt{2}$

答. $2i$

(7) $\sqrt{-4}\sqrt{-8}$

答. $-4\sqrt{2}$

(8) $\sqrt{-3}\sqrt{6}$

答. $3\sqrt{2}i$

(9) $\sqrt{-3}\sqrt{4}$

答. $2\sqrt{3}i$

(10) $\sqrt{4}\sqrt{-12}$

答. $4\sqrt{3}i$

(11) $\sqrt{-5}\sqrt{10}$

答. $5\sqrt{2}i$

(12) $\sqrt{-3}\sqrt{5}$

答. $\sqrt{15}i$

(13) $\sqrt{-3}\sqrt{-3}$

答. -3

(14) $\sqrt{-3}\sqrt{8}$

答. $2\sqrt{6}i$

(15) $\sqrt{2}\sqrt{-10}$

答. $2\sqrt{5}i$

(16) $\sqrt{-6}\sqrt{12}$

答. $6\sqrt{2}i$

(17) $\sqrt{2}\sqrt{-2}$

答. $2i$

(18) $\sqrt{2}\sqrt{-6}$

答. $2\sqrt{3}i$

(19) $\sqrt{6}\sqrt{-10}$

答. $2\sqrt{15}i$

(20) $\sqrt{3}\sqrt{-6}$

答. $3\sqrt{2}i$

複素数 ($\sqrt{-a}$ を含むかけ算わり算)2 の解答

氏名 _____

1. 次の式を計算せよ。

(1) $\frac{\sqrt{-3}}{\sqrt{4}}$

答. $\frac{\sqrt{3}}{2}i$

(2) $\frac{\sqrt{-12}}{\sqrt{2}}$

答. $\sqrt{6}i$

(3) $\frac{\sqrt{-8}}{\sqrt{2}}$

答. $2i$

(4) $\frac{\sqrt{6}}{\sqrt{-3}}$

答. $-\sqrt{2}i$

(5) $\frac{\sqrt{3}}{\sqrt{-4}}$

答. $-\frac{\sqrt{3}}{2}i$

(6) $\frac{\sqrt{-12}}{\sqrt{3}}$

答. $2i$

(7) $\frac{\sqrt{-9}}{\sqrt{4}}$

答. $\frac{3}{2}i$

(8) $\frac{\sqrt{-8}}{\sqrt{-2}}$

答. 2

(9) $\frac{\sqrt{6}}{\sqrt{-2}}$

答. $-\sqrt{3}i$

(10) $\frac{\sqrt{-6}}{\sqrt{2}}$

答. $\sqrt{3}i$

(11) $\frac{\sqrt{-12}}{\sqrt{-2}}$

答. $\sqrt{6}$

(12) $\frac{\sqrt{10}}{\sqrt{-2}}$

答. $-\sqrt{5}i$

(13) $\frac{\sqrt{-10}}{\sqrt{-2}}$

答. $\sqrt{5}$

(14) $\frac{\sqrt{2}}{\sqrt{-4}}$

答. $-\frac{\sqrt{2}}{2}i$

(15) $\frac{\sqrt{-6}}{\sqrt{-3}}$

答. $\sqrt{2}$

(16) $\frac{\sqrt{4}}{\sqrt{-2}}$

答. $-\sqrt{2}i$

(17) $\frac{\sqrt{-6}}{\sqrt{3}}$

答. $\sqrt{2}i$

(18) $\frac{\sqrt{-9}}{\sqrt{-4}}$

答. $\frac{3}{2}$

(19) $\frac{\sqrt{-4}}{\sqrt{-2}}$

答. $\sqrt{2}$

(20) $\frac{\sqrt{-6}}{\sqrt{4}}$

答. $\frac{\sqrt{6}}{2}i$

複素数 ($\sqrt{-a}$ を含むかけ算わり算)3 の解答

氏名 _____

1. 次の式を計算せよ。

(1) $\frac{\sqrt{-7}}{\sqrt{-3}}$

答. $\frac{\sqrt{21}}{3}$

(2) $\frac{\sqrt{-10}}{\sqrt{-3}}$

答. $\frac{\sqrt{30}}{3}$

(3) $\frac{\sqrt{-8}}{\sqrt{-3}}$

答. $\frac{2\sqrt{6}}{3}$

(4) $\frac{\sqrt{10}}{\sqrt{-3}}$

答. $-\frac{\sqrt{30}}{3}i$

(5) $\frac{\sqrt{-2}}{\sqrt{-3}}$

答. $\frac{\sqrt{6}}{3}$

(6) $\frac{\sqrt{-10}}{\sqrt{3}}$

答. $\frac{\sqrt{30}}{3}i$

(7) $\frac{\sqrt{-5}}{\sqrt{3}}$

答. $\frac{\sqrt{15}}{3}i$

(8) $\frac{\sqrt{9}}{\sqrt{-2}}$

答. $-\frac{3\sqrt{2}}{2}i$

(9) $\frac{\sqrt{11}}{\sqrt{-3}}$

答. $-\frac{\sqrt{33}}{3}i$

(10) $\frac{\sqrt{-5}}{\sqrt{-2}}$

答. $\frac{\sqrt{10}}{2}$

(11) $\frac{\sqrt{-11}}{\sqrt{3}}$

答. $\frac{\sqrt{33}}{3}i$

(12) $\frac{\sqrt{-3}}{\sqrt{-2}}$

答. $\frac{\sqrt{6}}{2}$

(13) $\frac{\sqrt{-9}}{\sqrt{2}}$

答. $\frac{3\sqrt{2}}{2}i$

(14) $\frac{\sqrt{-4}}{\sqrt{3}}$

答. $\frac{2\sqrt{3}}{3}i$

(15) $\frac{\sqrt{-11}}{\sqrt{-2}}$

答. $\frac{\sqrt{22}}{2}$

(16) $\frac{\sqrt{11}}{\sqrt{-2}}$

答. $-\frac{\sqrt{22}}{2}i$

(17) $\frac{\sqrt{4}}{\sqrt{-3}}$

答. $-\frac{2\sqrt{3}}{3}i$

(18) $\frac{\sqrt{5}}{\sqrt{-3}}$

答. $-\frac{\sqrt{15}}{3}i$

(19) $\frac{\sqrt{-2}}{\sqrt{3}}$

答. $\frac{\sqrt{6}}{3}i$

(20) $\frac{\sqrt{3}}{\sqrt{-2}}$

答. $-\frac{\sqrt{6}}{2}i$

複素数 ($\sqrt{-a}$ を含むかけ算わり算)4 の解答

氏名 _____

1. 次の式を計算せよ。

(1) $\frac{\sqrt{5}}{\sqrt{-3}}$

答. $-\frac{\sqrt{15}}{3}i$

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

答. $\frac{\sqrt{6}}{2}i$

(3) $\frac{\sqrt{-9}}{\sqrt{2}}$

答. $\frac{3\sqrt{2}}{2}i$

(4) $\frac{\sqrt{9}}{\sqrt{-2}}$

答. $-\frac{3\sqrt{2}}{2}i$

(5) $\frac{\sqrt{-12}}{\sqrt{-4}}$

答. $\sqrt{3}$

(6) $\frac{\sqrt{-11}}{\sqrt{2}}$

答. $\frac{\sqrt{22}}{2}i$

(7) $\frac{\sqrt{-10}}{\sqrt{-3}}$

答. $\frac{\sqrt{30}}{3}$

(8) $\frac{\sqrt{-7}}{\sqrt{3}}$

答. $\frac{\sqrt{21}}{3}i$

(9) $\frac{\sqrt{-11}}{\sqrt{-2}}$

答. $\frac{\sqrt{22}}{2}$

(10) $\frac{\sqrt{-2}}{\sqrt{-3}}$

答. $\frac{\sqrt{6}}{3}$

(11) $\frac{\sqrt{8}}{\sqrt{-3}}$

答. $-\frac{2\sqrt{6}}{3}i$

(12) $\frac{\sqrt{-2}}{\sqrt{-4}}$

答. $\frac{\sqrt{2}}{2}$

(13) $\frac{\sqrt{6}}{\sqrt{-3}}$

答. $-\sqrt{2}i$

(14) $\frac{\sqrt{2}}{\sqrt{-3}}$

答. $-\frac{\sqrt{6}}{3}i$

(15) $\frac{\sqrt{6}}{\sqrt{-4}}$

答. $-\frac{\sqrt{6}}{2}i$

(16) $\frac{\sqrt{-3}}{\sqrt{4}}$

答. $\frac{\sqrt{3}}{2}i$

(17) $\frac{\sqrt{-12}}{\sqrt{4}}$

答. $\sqrt{3}i$

(18) $\frac{\sqrt{6}}{\sqrt{-2}}$

答. $-\sqrt{3}i$

(19) $\frac{\sqrt{4}}{\sqrt{-2}}$

答. $-\sqrt{2}i$

(20) $\frac{\sqrt{-10}}{\sqrt{2}}$

答. $\sqrt{5}i$

複素数 ($\sqrt{-a}$ を含むかけ算わり算)5 の解答

氏名 _____

1. 次の式を計算せよ。

(1) $\frac{\sqrt{-8}}{\sqrt{3}}$

答. $\frac{2\sqrt{6}}{3}i$

(2) $\frac{\sqrt{-8}}{\sqrt{2}}$

答. $2i$

(3) $\frac{\sqrt{-5}}{\sqrt{2}}$

答. $\frac{\sqrt{10}}{2}i$

(4) $\sqrt{-2}\sqrt{-8}$

答. -4

(5) $\frac{\sqrt{-3}}{\sqrt{2}}$

答. $\frac{\sqrt{6}}{2}i$

(6) $\frac{\sqrt{11}}{\sqrt{-3}}$

答. $-\frac{\sqrt{33}}{3}i$

(7) $\frac{\sqrt{12}}{\sqrt{-4}}$

答. $-\sqrt{3}i$

(8) $\frac{\sqrt{4}}{\sqrt{-2}}$

答. $-\sqrt{2}i$

(9) $\sqrt{-8}\sqrt{-8}$

答. -8

(10) $\frac{\sqrt{-12}}{\sqrt{-2}}$

答. $\sqrt{6}$

(11) $\frac{\sqrt{12}}{\sqrt{-3}}$

答. $-2i$

(12) $\sqrt{2}\sqrt{-10}$

答. $2\sqrt{5}i$

(13) $\frac{\sqrt{-2}}{\sqrt{4}}$

答. $\frac{\sqrt{2}}{2}i$

(14) $\frac{\sqrt{10}}{\sqrt{-3}}$

答. $-\frac{\sqrt{30}}{3}i$

(15) $\sqrt{-6}\sqrt{-8}$

答. $-4\sqrt{3}$

(16) $\sqrt{3}\sqrt{-8}$

答. $2\sqrt{6}i$

(17) $\frac{\sqrt{3}}{\sqrt{-2}}$

答. $-\frac{\sqrt{6}}{2}i$

(18) $\sqrt{-2}\sqrt{10}$

答. $2\sqrt{5}i$

(19) $\sqrt{2}\sqrt{-4}$

答. $2\sqrt{2}i$

(20) $\frac{\sqrt{8}}{\sqrt{-3}}$

答. $-\frac{2\sqrt{6}}{3}i$