

## 平方根＜乗除混合＞No.1の解答

1. 次の式を簡単にせよ。

$$(1) \sqrt{3} \times (-2\sqrt{7}) \times \sqrt{3}$$

答.  $-6\sqrt{7}$

$$(2) \sqrt{3} \div \sqrt{3} \div \sqrt{3}$$

答.  $\frac{\sqrt{3}}{3}$

$$(3) \sqrt{7} \times \sqrt{7} \times (-\sqrt{2})$$

答.  $-7\sqrt{2}$

$$(4) 2\sqrt{5} \times \sqrt{3} \div \sqrt{3}$$

答.  $2\sqrt{5}$

$$(5) \sqrt{8} \div \sqrt{7} \div (-\sqrt{2})$$

答.  $-\frac{2\sqrt{7}}{7}$

$$(6) -3\sqrt{2} \times (-2\sqrt{5}) \times (-\sqrt{3})$$

答.  $-6\sqrt{30}$

$$(7) -2\sqrt{3} \div (-3\sqrt{8}) \div \sqrt{2}$$

答.  $\frac{\sqrt{3}}{6}$

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

答.  $\frac{\sqrt{3}}{9}$

$$(9) -2\sqrt{2} \div \sqrt{5} \div (-\sqrt{2})$$

答.  $\frac{2\sqrt{5}}{5}$

$$(10) \sqrt{8} \times (-3\sqrt{7}) \times (-\sqrt{2})$$

答.  $12\sqrt{7}$

## 平方根＜乗除混合＞No.2の解答

1. 次の式を簡単にせよ。

$$(1) 3\sqrt{5} \div (-\sqrt{7}) \times \sqrt{2}$$

答.  $-\frac{3\sqrt{70}}{7}$

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

答.  $-2\sqrt{5}$

$$(3) -\sqrt{3} \div (-3\sqrt{6}) \div (-\sqrt{2})$$

答.  $-\frac{1}{6}$

$$(4) -2\sqrt{6} \times (-\sqrt{8}) \times \sqrt{2}$$

答.  $8\sqrt{6}$

$$(5) -3\sqrt{5} \times (-\sqrt{7}) \div (-\sqrt{3})$$

答.  $-\sqrt{105}$

$$(6) \sqrt{5} \div 2\sqrt{5} \div (-\sqrt{2})$$

答.  $-\frac{\sqrt{2}}{4}$

$$(7) -\sqrt{5} \times (-3\sqrt{8}) \times \sqrt{2}$$

答.  $12\sqrt{5}$

$$(8) \sqrt{5} \times (-3\sqrt{3}) \div (-\sqrt{3})$$

答.  $3\sqrt{5}$

$$(9) \sqrt{6} \div (-3\sqrt{8}) \div (-\sqrt{3})$$

答.  $\frac{1}{6}$

$$(10) 2\sqrt{7} \div (-\sqrt{3}) \div (-\sqrt{3})$$

答.  $\frac{2\sqrt{7}}{3}$

## 平方根＜乗除混合＞No.3の解答

1. 次の式を簡単にせよ。

(1)  $2\sqrt{8} \times \sqrt{5} \times (-\sqrt{2})$

答.  $-8\sqrt{5}$

(2)  $-\sqrt{2} \div (-\sqrt{7}) \times \sqrt{2}$

答.  $\frac{2\sqrt{7}}{7}$

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

答.  $-\frac{\sqrt{5}}{15}$

(4)  $-2\sqrt{3} \div 2\sqrt{8} \div (-\sqrt{2})$

答.  $\frac{\sqrt{3}}{4}$

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

答.  $6\sqrt{3}$

(6)  $\sqrt{2} \times (-2\sqrt{8}) \div \sqrt{2}$

答.  $-4\sqrt{2}$

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

答.  $-4\sqrt{6}$

(8)  $3\sqrt{2} \div (-3\sqrt{6}) \div (-\sqrt{2})$

答.  $\frac{\sqrt{6}}{6}$

(9)  $-3\sqrt{5} \times 3\sqrt{7} \times \sqrt{3}$

答.  $-9\sqrt{105}$

(10)  $3\sqrt{5} \div (-3\sqrt{2}) \times (-\sqrt{2})$

答.  $\sqrt{5}$

## 平方根＜乗除混合＞No.4の解答

1. 次の式を簡単にせよ。

(1)  $\sqrt{5} \times \sqrt{8} \times (-\sqrt{3})$

答.  $-2\sqrt{30}$

(2)  $2\sqrt{3} \times \sqrt{5} \times \sqrt{2}$

答.  $2\sqrt{30}$

(3)  $\sqrt{7} \div \sqrt{5} \div (-\sqrt{2})$

答.  $-\frac{\sqrt{70}}{10}$

(4)  $\sqrt{3} \div \sqrt{3} \times \sqrt{2}$

答.  $\sqrt{2}$

(5)  $\sqrt{2} \div \sqrt{2} \times (-\sqrt{2})$

答.  $-\sqrt{2}$

(6)  $-3\sqrt{2} \div (-\sqrt{2}) \div \sqrt{2}$

答.  $\frac{3\sqrt{2}}{2}$

(7)  $-2\sqrt{3} \times \sqrt{5} \div \sqrt{3}$

答.  $-2\sqrt{5}$

(8)  $-\sqrt{5} \div (-\sqrt{5}) \div \sqrt{2}$

答.  $\frac{\sqrt{2}}{2}$

(9)  $-\sqrt{6} \div \sqrt{2} \times \sqrt{3}$

答.  $-3$

(10)  $-\sqrt{3} \times (-\sqrt{2}) \div (-\sqrt{2})$

答.  $-\sqrt{3}$

## 平方根＜乗除混合＞No.5の解答

1. 次の式を簡単にせよ。

$$(1) \sqrt{6} \div (-\sqrt{8}) \div (-\sqrt{2})$$

$$\text{答. } \frac{\sqrt{6}}{4}$$

$$(2) \sqrt{5} \times 3\sqrt{6} \div \sqrt{3}$$

$$\text{答. } 3\sqrt{10}$$

$$(3) \sqrt{7} \div (-\sqrt{2}) \times \sqrt{3}$$

$$\text{答. } -\frac{\sqrt{42}}{2}$$

$$(4) -\sqrt{7} \times \sqrt{3} \div (-\sqrt{2})$$

$$\text{答. } \frac{\sqrt{42}}{2}$$

$$(5) 3\sqrt{7} \div (-3\sqrt{3}) \times (-\sqrt{3})$$

$$\text{答. } \sqrt{7}$$

$$(6) \sqrt{5} \times 2\sqrt{5} \div (-\sqrt{2})$$

$$\text{答. } -5\sqrt{2}$$

$$(7) \sqrt{5} \times 2\sqrt{7} \times (-\sqrt{3})$$

$$\text{答. } -2\sqrt{105}$$

$$(8) \sqrt{5} \div (-2\sqrt{5}) \div \sqrt{2}$$

$$\text{答. } -\frac{\sqrt{2}}{4}$$

$$(9) \sqrt{5} \div 2\sqrt{3} \times \sqrt{3}$$

$$\text{答. } \frac{\sqrt{5}}{2}$$

$$(10) \sqrt{5} \div \sqrt{3} \times (-\sqrt{2})$$

$$\text{答. } -\frac{\sqrt{30}}{3}$$