

1

次の計算を下さい。

(1) $37 \times 15 + 37 \times 29 + 56 \times 37 = \square$

$$37 \times (15 + 29 + 56) = 3700 //$$

(2) $43 \times 27 + 64 \times 43 - 43 \times 37 + 56 \times 43 = \square$

$$43 \times (27 + 64 - 37 + 56) = 4730 //$$

(3) $15 \times 3.14 + 2.7 \times 31.4 + 0.52 \times 314 - 580 \times 0.314 = \square$

$$\begin{array}{cccccc} \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ \underline{15} & \underline{3.14} & \underline{52} & \underline{3.14} & \underline{58} & \underline{3.14} \\ \downarrow & & \downarrow & & \downarrow & \\ \underline{27} & & \underline{52} & & \underline{58} & \end{array}$$

$$(15 + 27 + 52 - 58) \times 3.14 = 113.04 //$$

(4) $18 \times 0.125 + 73 \times 0.25 + 18 \div 4 = \square$

$$\begin{array}{ccc} \downarrow & \downarrow & \downarrow \downarrow \\ 9 & \underline{0.25} & 18 \times \underline{0.25} \end{array}$$

$$(9 + 73 + 18) \times 0.25 = 25 //$$

(5) $1.27 \times 1.25 + 12.7 \times 0.825 + 7.3 \times 0.95 = \square$

$$\begin{array}{ccc} \downarrow & \downarrow & \downarrow \\ \underline{12.7} \times 0.125 & \underline{12.7} \times 0.825 & \end{array}$$

$$\begin{aligned} & 12.7 \times (0.125 + 0.825) + 7.3 \times 0.95 \\ & = 12.7 \times 0.95 + 7.3 \times 0.95 \\ & = (12.7 + 7.3) \times 0.95 = 19 // \end{aligned}$$

2

次の計算をしなさい。

$$(1) \frac{1}{1 \times 2} + \frac{1}{2 \times 3} + \frac{1}{3 \times 4} + \frac{1}{4 \times 5} + \frac{1}{5 \times 6} + \frac{1}{6 \times 7} + \frac{1}{7 \times 8} = \square$$

$$1 - \frac{1}{8} = \frac{7}{8} //$$

$$(2) \frac{2}{2 \times 3} + \frac{2}{3 \times 4} + \frac{2}{4 \times 5} + \frac{2}{5 \times 6} + \frac{2}{6 \times 7} + \frac{2}{7 \times 8} + \frac{2}{8 \times 9} = \square$$

$$2 \times \left(\frac{1}{2} - \frac{1}{9} \right) = \frac{7}{9} //$$

$$(3) \frac{1}{1 \times 3} + \frac{1}{3 \times 5} + \frac{1}{5 \times 7} + \frac{1}{7 \times 9} + \frac{1}{9 \times 11} + \frac{1}{11 \times 13} + \frac{1}{13 \times 15} = \square$$

$$\frac{1}{2} \times \left(1 - \frac{1}{15} \right) = \frac{7}{15} //$$

$$(4) \frac{1}{12} + \frac{1}{20} + \frac{1}{30} + \frac{1}{42} + \frac{1}{56} + \frac{1}{72} + \frac{1}{90} + \frac{1}{110} + \frac{1}{132} = \square$$

$$\frac{1}{3} - \frac{1}{12} = \frac{1}{4} //$$

$$(5) \frac{1}{1 \times 2 \times 3} + \frac{1}{2 \times 3 \times 4} + \frac{1}{3 \times 4 \times 5} + \frac{1}{4 \times 5 \times 6} + \frac{1}{5 \times 6 \times 7} = \square$$

$$\frac{1}{2} \times \left(\frac{1}{2} - \frac{1}{42} \right) = \frac{5}{21} //$$

3

次の計算をなさい。

$$(1) \quad 1 + 3 + 5 + 7 + 9 + \dots + 37 = \square$$

$\underbrace{1}_{(1)}$
 $\underbrace{3}_{(2)}$
 $\underbrace{5}_{(3)}$
 $\underbrace{7}_{(4)}$
 $\underbrace{9}_{(5)}$
 \dots
 $\underbrace{37}_{(19)}$

$$19 \times 19 = 361 //$$

$$(2) \quad \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \frac{1}{32} + \frac{1}{64} + \frac{1}{128} + \frac{1}{256} + \frac{1}{512} + \frac{1}{1024} = \square$$

$$\frac{1023}{1024} //$$

$$(3) \quad \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \frac{1}{32} + \dots = \square$$

1に限りなく近づくか

1になりたり1を超えることはない。