/	解　説
/	NO5A

中3 2次方程式 NO5
完全平方で解く－①

NAME	mistake

問題 □にあてはまる数を求めよ。また式が和か差の平方になるように完成させよ。

Aコース

① $x^2+2x+\boxed{1}=(x+\boxed{1})^2$

④ $x^2-8x+\boxed{16}=(x-\boxed{4})^2$

⑦ $x^2+\frac{6}{5}x+\boxed{\frac{9}{25}}=(x+\boxed{\frac{3}{5}})^2$ $(\frac{3}{5})^2$

④ $x^2+\frac{2}{3}x+\boxed{\frac{1}{9}}=(x+\boxed{\frac{1}{3}})^2$

⑤ $x^2-7x+\boxed{\frac{49}{4}}=(x-\boxed{\frac{7}{2}})^2$

⑥ $x^2-\frac{3}{4}x+\boxed{\frac{9}{64}}=(x-\boxed{\frac{3}{8}})^2$

⑦ $x^2+12x+36=(x+6)^2$

⑧ $x^2+\frac{3}{2}x+\frac{9}{16}=(x+\frac{3}{4})^2$

⑨ $x^2-9x+\frac{81}{4}=(x-\frac{9}{2})^2$

⑩ $x^2-\frac{6}{7}x+\frac{9}{49}=(x-\frac{3}{7})^2$

⑪ $x^2-6x+9=(x-3)^2$

⑫ $x^2-x+\frac{1}{4}=(x-\frac{1}{2})^2$

Bコース

① $x^2+4x+\boxed{4}=(x+\boxed{2})^2$

② $x^2+3x+\boxed{\frac{9}{4}}=(x+\boxed{\frac{3}{2}})^2$

③ $x^2-\frac{2}{7}x+\boxed{\frac{1}{49}}=(x-\boxed{\frac{1}{7}})^2$

④ $x^2+\frac{4}{3}x+\boxed{\frac{4}{9}}=(x+\boxed{\frac{2}{3}})^2$

⑤ $x^2-20x+\boxed{100}=(x-\boxed{10})^2$

⑥ $x^2-\frac{12}{5}x+\boxed{\frac{36}{25}}=(x-\boxed{\frac{6}{5}})^2$

⑦ $x^2+14x+49=(x+7)^2$

⑧ $x^2+\frac{13}{6}x+\frac{169}{144}=(x+\frac{13}{12})^2$

⑨ $x^2-26x+169=(x-13)^2$

⑩ $x^2-\frac{10}{7}x+\frac{25}{49}=(x-\frac{5}{7})^2$

⑪ $x^2-16x+64=(x-8)^2$

⑫ $x^2+\frac{28}{5}x+\frac{196}{25}=(x+\frac{14}{5})^2$

Cコース

① $x^2-6x+\boxed{9}=(x-\boxed{3})^2$

② $x^2+5x+\boxed{\frac{25}{4}}=(x+\boxed{\frac{5}{2}})^2$

③ $x^2-\frac{3}{5}x+\boxed{\frac{9}{100}}=(x-\boxed{\frac{3}{10}})^2$

④ $x^2+\frac{8}{9}x+\boxed{\frac{16}{81}}=(x+\boxed{\frac{4}{9}})^2$

⑤ $x^2-32x+\boxed{256}=(x-\boxed{16})^2$

⑥ $x^2-\frac{14}{3}x+\boxed{\frac{49}{9}}=(x-\boxed{\frac{7}{3}})^2$

⑦ $x^2+22x+121=(x+11)^2$

⑧ $x^2+\frac{14}{15}x+\frac{49}{225}=(x+\frac{7}{15})^2$

⑨ $x^2-18x+81=(x-9)^2$

⑩ $x^2+\frac{30}{17}x+\frac{225}{289}=(x+\frac{15}{17})^2$

⑪ $x^2+30x+225=(x+15)^2$

⑫ $x^2-\frac{19}{4}x+\frac{361}{64}=(x-\frac{19}{8})^2$