例題 次の計算をせよ。

(1) $\dfrac{2x-3y}{3}+\dfrac{3x+2y}{4}$

(2) $\dfrac{a+5b}{2}-\dfrac{2a-b}{6}$

答

答

練習 次の計算をせよ。

(1) $\dfrac{3a+4b}{4}+\dfrac{-a-3b}{5}$

(2) $\dfrac{2x-y}{3}-\dfrac{6x-3y}{2}$

答

答

(2) $\dfrac{x-y}{3}+\dfrac{4x-y}{6}$

(4) $\dfrac{x+7y}{10}-\dfrac{x+3y}{6}$

答

答

練習 次の計算をせよ。

(1) $\dfrac{2x+3y}{2}+\dfrac{-x-4y}{3}$

答

(2) $\dfrac{6a-b}{3}-\dfrac{8a-5b}{4}$

答

(3) $m-n+\dfrac{m+2n}{2}$

答

(4) $2a+b-\dfrac{3a+4b}{3}$

答

(5) $\dfrac{-2m+n}{12}+\dfrac{-2m-n}{4}$

答

(6) $-m+3n-\dfrac{2m+2n}{3}$

答

例題 次の計算をせよ。

(1) $\dfrac{2x-3y}{3}+\dfrac{3x+2y}{4}$

★

$=\dfrac{4(2x-3y)}{12}+\dfrac{3(3x+2y)}{12}$

$=\dfrac{4(2x-3y)+3(3x+2y)}{12}$

$=\dfrac{8x-12y+9x+6y}{12}$

$=\dfrac{17x-6y}{12}$

答 $\dfrac{17x-6y}{12}$

(2) $\dfrac{a+5b}{2}-\dfrac{2a-b}{6}$

★

$=\dfrac{3(a+5b)}{6}-\dfrac{2a-b}{6}$

$=\dfrac{3(a+5b)-(2a-b)}{6}$

$=\dfrac{3a+15b-2a+b}{6}$

$=\dfrac{a+16b}{6}$

答 $\dfrac{a+16b}{6}$

練習 次の計算をせよ。

(1) $\dfrac{3a+4b}{4}+\dfrac{-a-3b}{5}$

★

$=\dfrac{5(3a+4b)}{20}+\dfrac{4(-a-3b)}{20}$

$=\dfrac{5(3a+4b)+4(-a-3b)}{20}$

$=\dfrac{15a+20b-4a-12b}{20}$

$=\dfrac{11a+8b}{20}$

答 $\dfrac{11a+8b}{20}$

(2) $\dfrac{2x-y}{3}-\dfrac{6x-3y}{2}$

★

$=\dfrac{2(2x-y)}{6}-\dfrac{3(6x-3y)}{6}$

$=\dfrac{2(2x-y)-3(6x-3y)}{6}$

$=\dfrac{4x-2y-18x+9y}{6}$

$=\dfrac{-14x+7y}{6}$

答 $\dfrac{-14x+7y}{6}$

(2) $\dfrac{x-y}{3}+\dfrac{4x-y}{6}$

★

$=\dfrac{2(x-y)}{6}+\dfrac{4x-y}{6}$

$=\dfrac{2(x-y)+4x-y}{6}$

$=\dfrac{2x-2y+4x-y}{6}$

$=\dfrac{\overset{2}{6}x-\overset{1}{3}y}{\underset{2}{6}}$

$=\dfrac{2x-y}{2}$

答 $\dfrac{2x-y}{2}$

(4) $\dfrac{x+7y}{10}-\dfrac{x+3y}{6}$

★

$=\dfrac{3(x+7y)}{30}-\dfrac{5(x+3y)}{30}$

$=\dfrac{3(x+7y)-5(x+3y)}{30}$

$=\dfrac{3x+21y-5x-15y}{30}$

$=\dfrac{-\overset{1}{2}x+\overset{3}{6}y}{\underset{15}{30}}$

$=\dfrac{-x+3y}{15}$

答 $\dfrac{-x+3y}{15}$

練習 次の計算をせよ。

(1) $\dfrac{2x+3y}{2}+\dfrac{-x-4y}{3}$

★

$=\dfrac{3(2x+3y)}{6}+\dfrac{2(-x-4y)}{6}$

$=\dfrac{3(2x+3y)+2(-x-4y)}{6}$

$=\dfrac{6x+9y-2x-8y}{6}$

$=\dfrac{4x+y}{6}$

答 $\dfrac{4x+y}{6}$

(2) $\dfrac{6a-b}{3}-\dfrac{8a-5b}{4}$

★

$=\dfrac{4(6a-b)}{12}-\dfrac{3(8a-5b)}{12}$

$=\dfrac{4(6a-b)-3(8a-5b)}{12}$

$=\dfrac{24a-4b-24a+15b}{12}$

$=\dfrac{11b}{12}$

答 $\dfrac{11b}{12}$

(3) $m-n+\dfrac{m+2n}{2}$

★

$=\dfrac{2}{2}m-\dfrac{2}{2}n+\dfrac{m+2n}{2}$

$=\dfrac{2m-2n+(m+2n)}{2}$

$=\dfrac{2m-2n+m+2n}{2}$

$=\dfrac{3m}{2}$

答 $\dfrac{3m}{2}$

(4) $2a+b-\dfrac{3a+4b}{3}$

★

$=\dfrac{6}{3}a+\dfrac{3}{3}b-\dfrac{3a+2b}{3}$

$=\dfrac{6a+3b-(3a+2b)}{3}$

$=\dfrac{6a+3b-3a-2b}{3}$

$=\dfrac{3a+b}{3}$

答 $\dfrac{3a+b}{3}$

(5) $\dfrac{-2m+n}{12}+\dfrac{-2m-n}{4}$

★

$=\dfrac{-2m+n}{12}+\dfrac{3(-2m-n)}{12}$

$=\dfrac{-2m+n+3(-2m-n)}{12}$

$=\dfrac{-2m+n-6m-3n}{12}$

$=\dfrac{-\overset{4}{8}m-\overset{1}{2}n}{\underset{6}{12}}$

$=\dfrac{-4m-n}{6}$

答 $\dfrac{-4m-n}{6}$

(6) $-m+3n-\dfrac{2m+2n}{3}$

★

$=-\dfrac{3m}{3}+\dfrac{9}{3}n-\dfrac{2m+2n}{3}$

$=\dfrac{-3m+9n-(2m+2n)}{3}$

$=\dfrac{-3m+9n-2m-2n}{3}$

$=\dfrac{-5m+7n}{3}$

答 $\dfrac{-5m+7n}{3}$