

# Exercise - 9(B)

$$3) a) \frac{7}{12} + \frac{9}{12} - \frac{5}{12} = \frac{7+9-5}{12} = \frac{11}{12}$$

$$b) \frac{9}{10} - \frac{3}{5} + \frac{7}{8} = \frac{36-24+35}{40} = \frac{47}{40}$$

$$c) \frac{5}{12} - \frac{2}{3} - \frac{1}{2} + \frac{7}{1} = \frac{5-8-6+84}{12} = \frac{75}{12}$$

$$d) \frac{1}{2} + \frac{3}{4} - \frac{5}{8} - \frac{1}{16} = \frac{8+12}{16} = \frac{20}{16}, \quad \frac{10+1}{16} = \frac{11}{16}$$

$$\frac{20-11}{16} = \frac{9}{16}$$

$$e) \frac{83}{4} + \frac{71}{2} - \frac{31}{4} - \frac{21}{2} = \frac{95}{4} + \frac{15}{2} - \frac{13}{4} - \frac{5}{2}$$

$$= \frac{35+30}{4} = \frac{65}{4} \quad \frac{13+10}{4} = \frac{23}{4} \quad \frac{65-23}{4} = \frac{42}{4}$$

$$f) \frac{105}{6} - \frac{72}{3} + \frac{81}{9} - \frac{51}{2} = \frac{65}{6} - \frac{23}{3} + \frac{25}{3} - \frac{11}{2}$$

$$= \frac{65+50}{6} = \frac{115}{6} \quad \frac{46+33}{6} = \frac{79}{6}$$

$$\frac{115-79}{6} = \frac{36}{6}$$



$$g) \quad \frac{55}{12} - \frac{6}{1} + \frac{8}{1} - \frac{53}{5} = \frac{65}{12} - \frac{6}{1} + \frac{8}{1}$$

$$= \frac{325 + 480}{60} = \frac{805}{60} \quad \frac{360 + 336}{60} = \frac{696}{60}$$

$$= \frac{805 - 696}{60} = \frac{109}{60}$$

$$h) \quad \frac{10}{4} + \frac{63}{8} - \frac{15}{1} + \frac{121}{2} = \frac{41}{4} + \frac{51}{8} - \frac{15}{1} + \frac{3}{2}$$

$$= \frac{82 + 51 + 12}{8} = \frac{145}{8} \quad \frac{120}{8} = \frac{120}{8}$$

7 | 14,721  
2,53

$$\frac{145 - 120}{8} = \frac{25}{8}$$

$$i) \quad \frac{25}{1} - \frac{20}{2} + \frac{153}{5} - \frac{5}{1} = \frac{25}{1} - \frac{41}{2} + \frac{78}{5} - \frac{5}{1}$$

$$= \frac{250 + 156}{10} = \frac{406}{10} \quad \frac{205 + 50}{10} = \frac{255}{10}$$

$$= \frac{406 - 255}{10} = \frac{151}{10}$$

$$j) \quad \frac{9}{14} - \frac{12}{7} + \frac{43}{7} - \frac{12}{21} = \frac{9}{14} - \frac{9}{7} + \frac{31}{7} - \frac{23}{21}$$

$$= \frac{27 + 186}{42} = \frac{213}{42} \quad \frac{54 + 46 - 100}{42} = \frac{213 - 100}{42}$$

$$= \frac{113}{42}$$