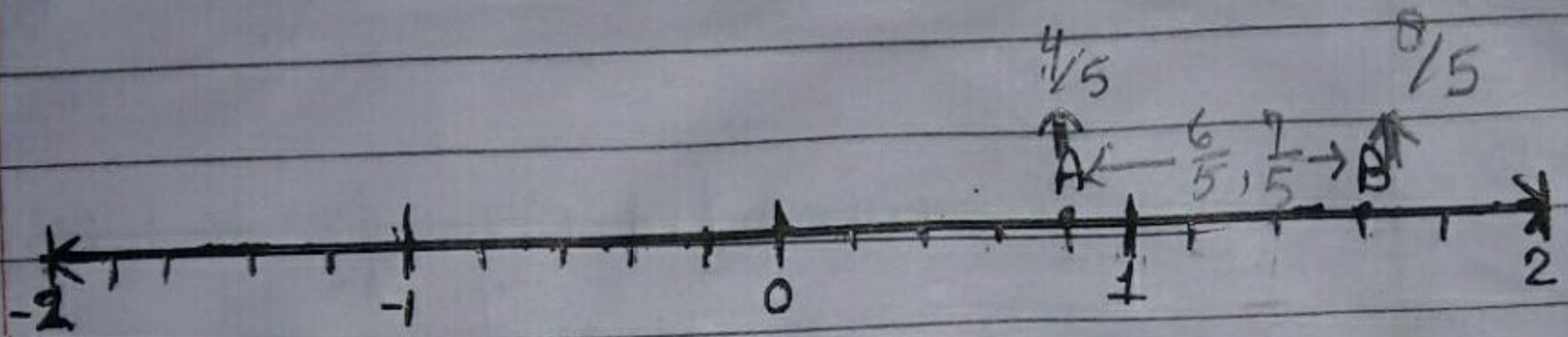


Exercise - 1.2

1 Tick (✓) the correct option.

(a.) Which one of the following rational numbers lies between A & B?

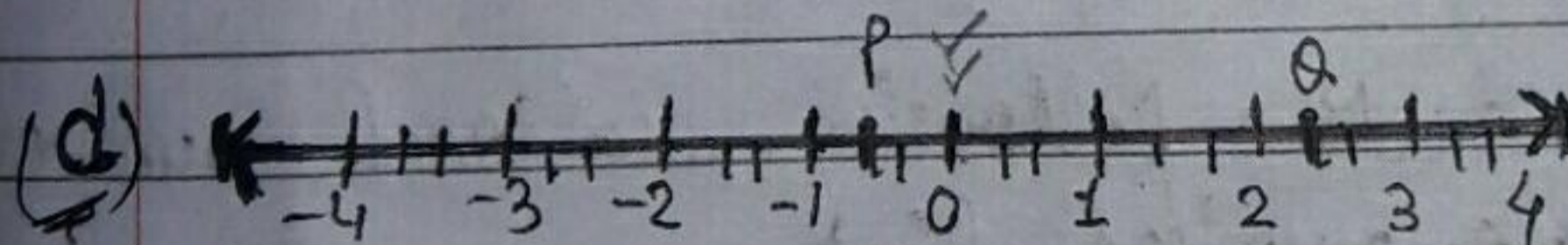


i) $-\frac{2}{3}$

ii) $-\frac{1}{2}$

iii) 0

iv) $\frac{6}{5}$ ✓✓



i) 0 ✓

ii) $\frac{21}{5}$

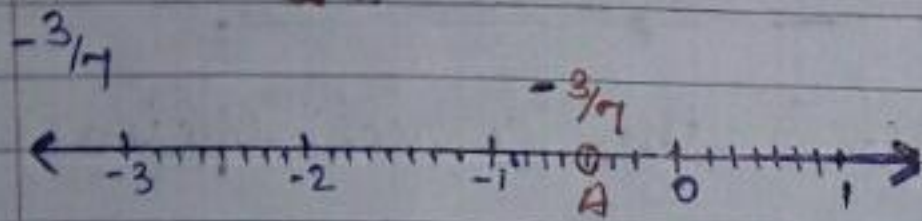
iii) $-\frac{6}{4}$

iv) $\frac{15}{4}$

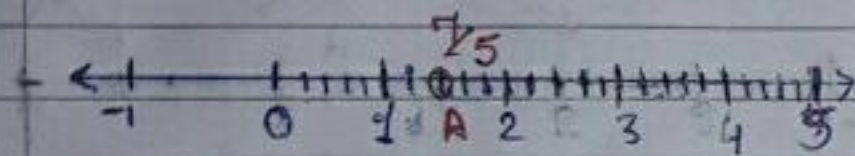
Q.2. Represent the following rational numbers on the number line.

a. $-\frac{3}{7}$

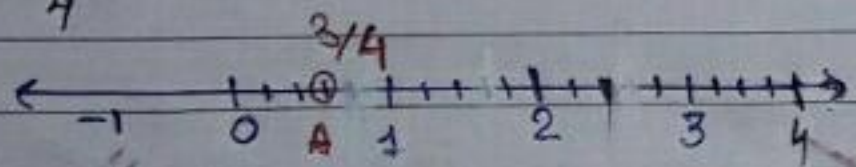
Q.1



$$2 \text{ (e)} \quad \frac{7}{5}$$



$$(j) \quad \frac{3}{4}$$



Q.3 Represent the following rational numbers on the number line.
Same

$$(a) \quad \frac{1}{2}, \frac{2}{3}, \frac{3}{4} \text{ and } \frac{4}{5}$$

On taking LCM of Denominators (2, 3, 4 & 5)

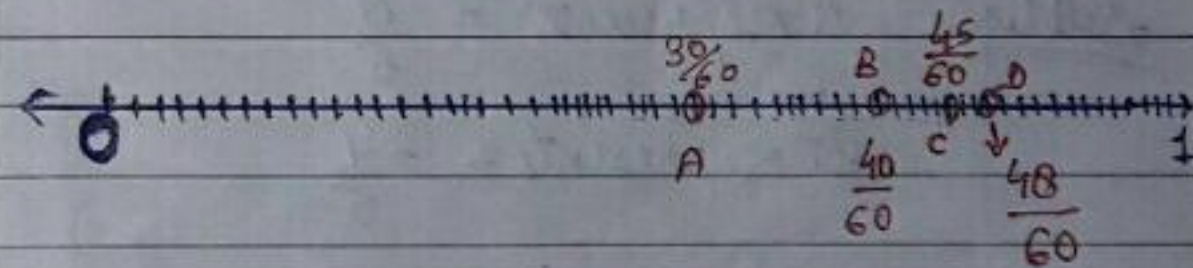
$$\text{LCM of } (2, 3, 4 \text{ \& } 5) = 60$$

$$\frac{1}{2} = \frac{1 \times 30}{2 \times 30} = \frac{30}{60}$$

$$\frac{2}{3} = \frac{2 \times 20}{3 \times 20} = \frac{40}{60}$$

$$\frac{3}{4} = \frac{3 \times 15}{4 \times 15} = \frac{45}{60}$$

$$\frac{4}{5} = \frac{4 \times 12}{5 \times 12} = \frac{48}{60}$$



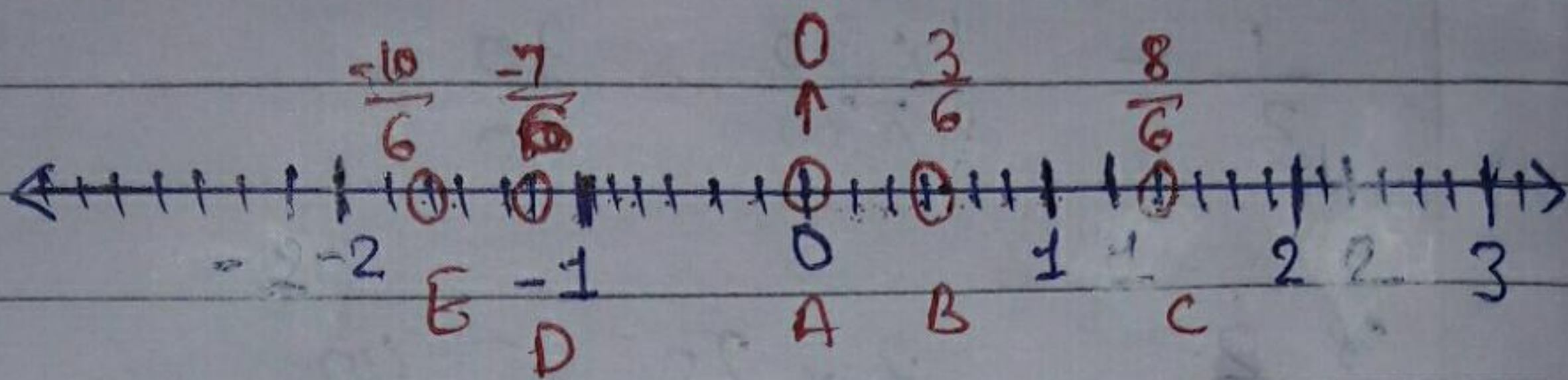
$$(c) \quad 0, \frac{1}{2}, \frac{-5}{3}, \frac{4}{3} \text{ and } \frac{-7}{6}$$

$$\text{LCM of } (1, 2, 3, 6) = 6$$

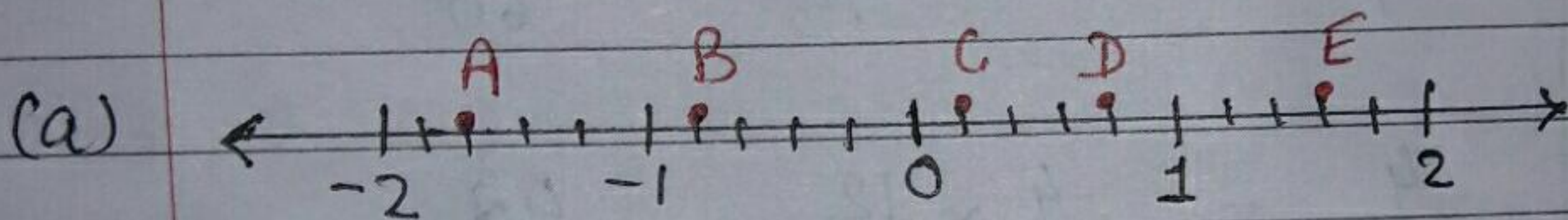
$$\frac{0}{1} \times \frac{6}{6} = \frac{0}{6} = 0, \quad \frac{1}{2} \times \frac{3}{3} = \frac{3}{6}$$

$$\frac{-5}{3} \times \frac{2}{2} = \frac{-10}{6}, \quad \frac{4}{3} \times \frac{2}{2} = \frac{8}{6}$$

$$\frac{-7}{6} \times \frac{1}{1} = \frac{-7}{6}$$

Q-4

Write the rational numbers represented by letters on the following number line.



Solution A Represents = $-\frac{8}{5}$

B Represents = $-\frac{4}{5}$

C Represents = $\frac{1}{5}$

D Represents = $\frac{4}{5}$

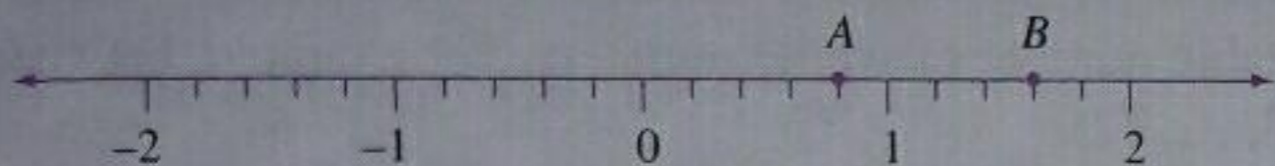
E Represents = $\frac{8}{5}$

Ans

Exercise 1.2

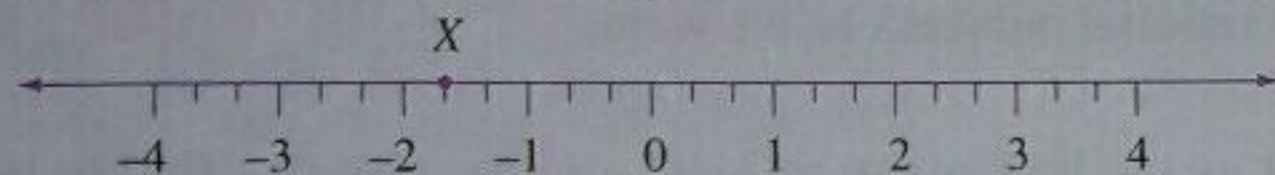
1. Tick (✓) the correct option.

a. Which one of the following rational numbers lies between A and B?



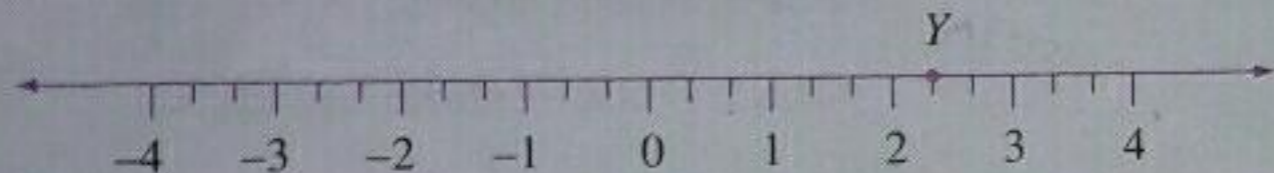
- i. $\frac{-2}{3}$ ii. $\frac{-1}{2}$ iii. 0 iv. $\frac{6}{5}$

b. Which one of the following rational numbers lies before X?



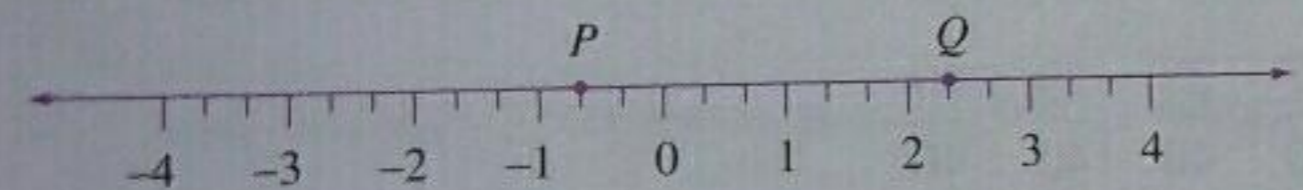
- i. 0 ii. $\frac{1}{2}$ iii. $\frac{-1}{2}$ iv. $\frac{-9}{4}$

c. Which one of the following rational numbers lies after Y?



- i. $\frac{21}{37}$ ii. $\frac{8}{9}$ iii. $\frac{48}{19}$ iv. $\frac{-5}{6}$

d. Which one of the following rational numbers lies between P and Q?



- i. 0 ii. $\frac{21}{5}$ iii. $\frac{-6}{4}$ iv. $\frac{15}{4}$

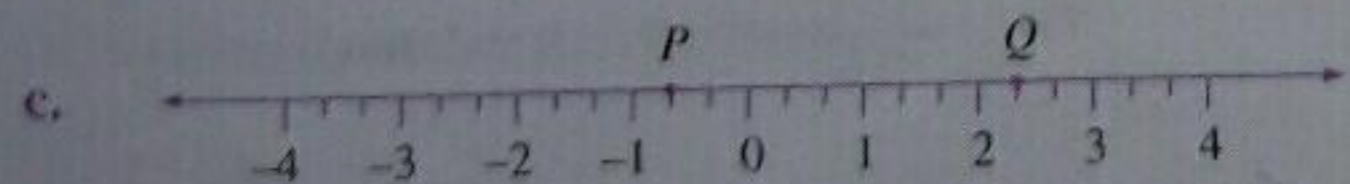
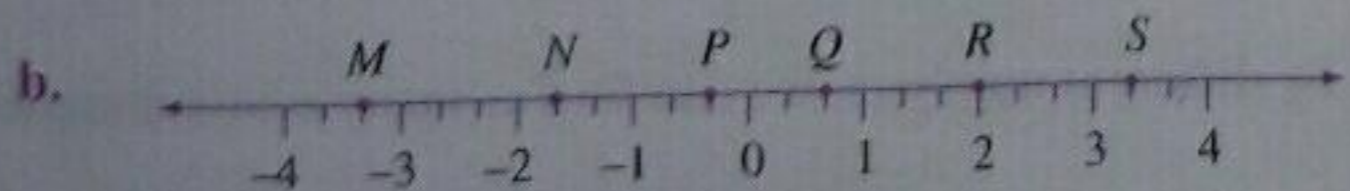
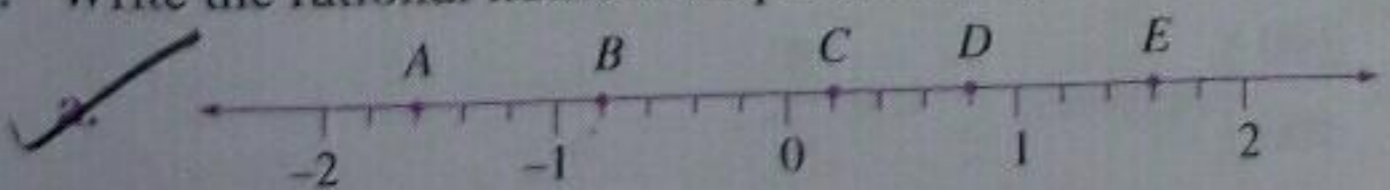
2. Represent the following rational numbers on the number line.

- a. $\frac{-3}{7}$ b. $\frac{0}{6}$ c. $\frac{-8}{3}$ d. $\frac{11}{13}$ e. $\frac{7}{5}$ f. $\frac{-5}{8}$ g. $\frac{-2}{3}$ h. $\frac{4}{5}$ i. $\frac{-20}{3}$ j. $\frac{3}{4}$

3. Represent the following rational numbers on the same number line.

- a. $\frac{1}{2}, \frac{2}{3}, \frac{3}{4}$ and $\frac{4}{5}$ b. $\frac{-5}{6}, \frac{-8}{3}, \frac{-3}{2}$ and $\frac{-1}{6}$ c. $0, \frac{1}{2}, \frac{-5}{3}, \frac{4}{3}$ and $\frac{-7}{6}$ d. $\frac{5}{2}, \frac{2}{5}, \frac{9}{10}, \frac{6}{5}$ and $\frac{7}{2}$

4. Write the rational numbers represented by letters on the following number lines.



Exercise 1.2

1. a. (iv) $\frac{6}{5}$ b. (iv) $\frac{-9}{4}$ c. (iii) $\frac{48}{19}$ d. (i) 0

4. a. $A = \frac{-8}{5}$, $B = \frac{-4}{5}$, $C = \frac{1}{5}$, $D = \frac{4}{5}$, $E = \frac{8}{5}$

b. $M = \frac{-10}{3}$, $N = \frac{-5}{3}$, $P = \frac{-1}{3}$, $Q = \frac{2}{3}$, $R = 2$, $S = \frac{10}{3}$

c. $P = \frac{-2}{3}$, $Q = \frac{7}{3}$