And $4\times(-36)= -144$

$9\times(-16) = 4\times(-36)$

$\frac{9}{4} = \frac{-36}{-16}$

Therefore, they are equivalent rational numbers.

(iv) $\frac{7}{15}$, $\frac{-28}{60}$

We have:

$7\times60 = 420$

And $15\times(-28)= -420$

$\therefore 7\times60 \neq 15\times(-28)$

Therefore, the rational numbers are not equivalent.

(v) $\frac{3}{12}$, $\frac{-1}{4}$

We have:

$3\times4=12$

And $12\times(-1)= -12$

$12 \neq -12$

Therefore, the rational numbers are not equivalent.

(vi) $\frac{2}{3}$, $\frac{3}{2}$

We have:

$2\times2=4$

And $3\times3=9$

$2\times2\neq3\times3$

Therefore, the rational numbers are not equivalent.

Q20

Answer :

(i) $\frac{-1}{5}=\frac{8}{x}$

$\Rightarrow -x=5\times8$

$\Rightarrow x=-40$

(ii) $\frac{7}{-3}=\frac{x}{6}$

$\Rightarrow (-3)x=7\times6$

$\Rightarrow x=\frac{(7\times6)}{(-3)}$

$\Rightarrow x=-14$

(iii) $\frac{3}{5}=\frac{x}{-25}$

$\Rightarrow 5x=3\times(-25)$

$\Rightarrow x=\frac{3\times(-25)}{5}$

$\Rightarrow x=(-15)$

(iv) $\frac{13}{6}=\frac{-65}{x}$

********** END **********