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13.Algebraic Fractions

Period 01 (40 minutes)

For reminding grade 09 content

Period 02 (40 minutes)

Algebraic fractions with unequal denominators.

$$\frac{5}{3m} + \frac{3}{8m^2}$$

$$= \frac{5 \times 8m}{3m \times 8m} + \frac{3 \times 3}{8m^2 \times 3}$$

$$= \frac{40m}{24m^2} + \frac{9}{24m^2}$$

$$= \frac{40m + 9}{24m^2}$$
Period 03 (40 minutes)

Complete the exercise 13.1 in page no 134 in your text book

$$\frac{5}{p+3} - \frac{2}{2p-1}$$

$$= \frac{5(2p-1)-2(p+3)}{(p+3)(2p-1)}$$

$$= \frac{10p-5-2p-6}{(p+3)(2p-1)}$$

$$= \frac{8p-11}{(p+3)(2p-1)}$$

$$= \frac{11p-51}{6(p+3)(p-1)}$$

$$= \frac{11p-51}{6(p+3)(p-1)}$$

Complete part A in exercise 13.2 in page no 136 in your text book.

Complete the revision exercise in page no 133 in your text book.

Period 04 (40 minutes)

$$\frac{3}{x^{2}+7x-30} + \frac{5}{x^{2}-100}$$

Simplify.

$$= \frac{3x(x-10)+5(x-3)}{(x-10)(x+10)(x-3)}$$

$$= \frac{3x-30+5x-15}{(x-10)(x+10)(x-3)}$$

$$= \frac{8x-45}{(x-10)(x+10)(x-3)}$$

$$x^{2}+7x-30 = (X+10)(X-3)$$

$$x^{2} - 100 = (X-10)(X+10)$$

L.C.M = (X-10)(X+10)(X-3)
Simplify.

$$\frac{1}{(x-1)} + \frac{3}{(x+1)} - \frac{2}{(x^{2}-1)}$$

$$= \frac{(x+1)}{(x-1)(x+1)} + \frac{3(x-1)}{(x-1)(x+1)} - \frac{2}{(x-1)(x+1)}$$

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

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

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

$$= \frac{4}{(x+1)}$$

Complete part (B) of exercise 13.2 in page no 136 in your text book.