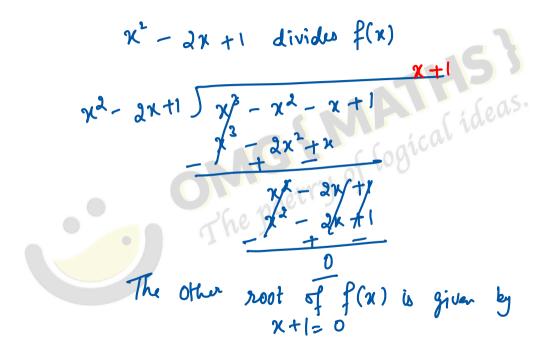
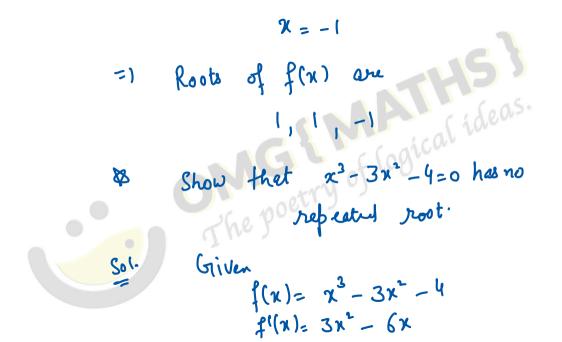


f'(x) = 0 $3x^{2} - 2x - 1 = 0$ 3x(x-1)+1(x-1)=0(x-1) =0 $\chi = 1, -1/3.$ are roots of f'(x) 14-1/2

f(1) = 1 - 1 - 1 + 1 = 0is root of f(n) =) | \therefore 1 is common root of f(x) + f'(x)=) 1 is a crepeated root of f(x) f(x) = 1, 1, d =) $(x-1)^2$ are factors of f(x)





$$f'(x) = 0$$

$$3x^{2} - 6x = 0$$

$$x' - 2x = 0$$

$$x (x - d) = 0$$

$$7 = 0$$

$$x - dx = 0$$

$$7 = 0$$

$$7 = 0$$

$$7 = 0$$

$$7 = 0$$

$$7 = 0$$

$$7 = 0$$

$$7 = 0$$

$$7 = 0$$

$$7 = 0$$

$$x^{3} - 3x^{2} - 4$$

$$f(2) = 8 - 12 - 4 = -8 \neq 0$$

0, 2 are not roots of f(x) =) f(x) and f'(x) has no common root. f(x) has no repeated root. Leas. =) The poet