

RATIONAL ZERO THEOREM

Ex 2] USE RATIONAL ZERO THEOREM TO LIST
ALL POSSIBLE RATIONAL ZEROS OF

$$f(x) = 2x^2 + x + 6$$

\swarrow \searrow
 q p

factors

$$p = \pm 1, \pm 2, \pm 3, \pm 6$$

$$q = \pm 1, \pm 2$$

$$\frac{p}{q} = \frac{1}{1}, \frac{2}{1}, \frac{3}{1}, \frac{6}{1}, \frac{1}{2}, \frac{2}{2}, \frac{3}{2}, \frac{6}{2}$$

$$\pm 1, \pm 2, \pm 3, \pm 6, \pm \frac{1}{2}, \pm \frac{3}{2}$$