

Name ANSWER KEY points

Solve: $36x^{-4} - 13x^{-2} + 1 = 0$

$$\text{Let } u = x^{-2}$$

$$\therefore u^2 = (x^{-2})^2 = x^{-4}$$

$$36u^2 - 13u + 1 = 0$$

$$(9u - 1)(4u - 1) = 0$$

$$u = \frac{1}{9}, \frac{1}{4}$$

$$x^{-2} = \frac{1}{9} \Rightarrow x^2 = 9 \Rightarrow x = \pm 3$$

$$x^{-2} = \frac{1}{4} \Rightarrow x^2 = 4 \Rightarrow x = \pm 2$$