

Quiz 2 (25 Jan) MTH140 Spring 2024

Solve $\frac{5}{p-2} - \frac{7}{p+2} = \frac{12}{p^2-4}$

Soln: Notice $p^2-4 = (p-2)(p+2)$

So multiply both sides by $(p+2)(p-2)$:

$$5(p+2) - 7(p-2) = 12$$

$$5p+10 - 7p+14 = 12$$

$$-2p+24 = 12$$

$$-2p = -12$$

$$p = 6$$