Related Questions with Solutions

Questions

Quetion: 01

A hyperbola passes through (2, 3) and has asymptotes 3x – 4y + 5 = 0 and 12x + 5y – 40 = 0, then the equation of its transverse axis is

A. 77x – 21y – 265 = 0

B. 21x – 77y + 265 = 0

C. 21x – 77y – 265 = 0

D. 21x + 77y – 265 = 0

Solutions

Solution: 01

Transverse axis is the equation of the angle bisector passing containing point [2, 3] , which is given by

$$\frac{3x - 4y + 5}{5} = \frac{12x + 5y - 40}{13}$$

$\Rightarrow$ 21x + 77y = 265

Correct Options

Answer:01

Correct Options: D