

SUBJECT: MATH EXAM 2nd Annual 20 22 CLASS: Inter P-I
 GROUP: I DATE: 21-12-22

(GENERAL INSTRUCTIONS FOR MARKING KEY)

9(a) $\sin^{-1} \frac{4}{5} + \sin^{-1} \frac{5}{13} + \sin^{-1} \frac{16}{25} = \frac{\pi}{2}$ P/13

The Correct statement was (Q.10 Ex 13.2)

$\sin^{-1} \frac{4}{5} + \sin^{-1} \frac{5}{13} + \sin^{-1} \frac{16}{65} = \pi/2$ (5M)

Full Credit $\rightarrow$ F.C (if attempted)

(b) $\Delta = \text{Area of triangle} = 2437$

$a = 79$, $c = 97$; $B = ?$

We know area of triangle with two sides and included angle

$\Delta = \frac{1}{2} ac \cdot \sin B$ (1M)

$2437 = \frac{1}{2} (79)(97) \sin B$ (1M)

$\sin B = \frac{2(2437)}{(79)(97)} = 0.636$ (1M)

$B = \sin^{-1} (0.636)$ (1M)

$B = 39^{\circ} 29' 50''$ (1M)

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تم نے درج بالا پر چ (انتخابی + معروضی) اور دیات کے حوالے سے مکمل طور پر تسلی کر لی ہے۔ کسی قسم کی کوئی غلطی نہ ہے۔

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