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Marks Distribution 5+5+5

1. Solve the inequality by using sign table and line graph

$$\frac{(x-4)(x+2)}{(x-1)} \geq 0$$

2. Find $\frac{dy}{dx}$ for the following function, $x^y + y^x = 1$

3. Differentiate $\tan^{-1}\left(\frac{2x}{1-x^2}\right)$ with respect to

$$\sin^{-1}\left(\frac{2x}{1+x^2}\right)$$

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