$\sqrt{3}\cos x + \sin x =$

$\sqrt{3}\sin x - \cos x =$

$0°$ and $240°$

$(\sqrt{3}\cos x + \sin x)_{max} =$

2, when $x = 300°$

$\sqrt{2}\sin(x - \alpha)$; $\alpha = 45°$

$(\cos x + \sin x)_{max} =$

2, when $x = 330°$

$60°$ and $180°$

$(\cos x - \sqrt{3}\sin x)_{min} =$

$5\cos(x + \alpha)$; $\alpha = \tan^{-1}\frac{4}{3}$

$3\sin x - 4\cos x =$

$\cos x - \sin x =$

$(\sqrt{3}\cos x - \sin x)_{min} =$

$180°$ and $300°$

$\cos x + \sqrt{3}\sin x = 1$ when $x =$

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$4\cos x - 3\sin x =$

$(\sqrt{3}\cos x + \sin x)_{min} =$

$-\sqrt{2}$, when $x = 225°$

$3\sin x + 4\cos x =$

$\sqrt{2}$, when $x = 45°$

$3\cos x + 4\sin x =$

$0°$ and $120°$

$3\cos x - 4\sin x =$

-2, when $x = 210°$

$3\sin x =$

2, when $x = 30°$

$\sin x - \sqrt{3}\cos x =$

$5\cos(x-\alpha)$; $\alpha = \tan^{-1}\frac{4}{3}$

$2\sin(x-\alpha)$; $\alpha = 30°$

$\cos x + \sqrt{3}\sin x = -1$ when $x =$

$\sqrt{2}\cos(x+\alpha)$; $\alpha = 45°$

$2\cos(x-\alpha)$; $\alpha = 30°$

$2\cos(x+\alpha)$

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$2\cos(x-\alpha)$; $\alpha = 60°$

$5\cos(x-\alpha)$; $\alpha = \tan^{-1}\frac{3}{4}$

$\cos x - \sqrt{3}\sin x = -1$ when $x =$

-2, when $x = 120°$

$(\cos x - \sqrt{3}\sin x)_{max} =$

$5\sin(x+\alpha)$; $\alpha = \tan^{-1}\frac{4}{3}$

$\cos x - \sqrt{3}\sin x = 1$ when $x =$

$5\sin(x-\alpha)$; $\alpha = \tan^{-1}\frac{4}{3}$

-2, when $x = 150°$

$(\sqrt{3}\cos x - \sin x)_{max} =$

$60°$ and $180°$

$\cos x + \sin x =$

$\cos x - \sin x =$

$\sin x - x\cos x =$

$0°$ and $240°$

$(\cos x + \sin x)_{min} =$

$2\sin(x-\alpha)$; $\alpha = 60°$

$2\sin(x+\alpha)$; $\alpha = 60°$

$\sin x + \sqrt{3}\cos x =$

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