2 cot x = 1
cot x = ½

sin x – 3cos x – 2sinx- cosx=

-sin x – 4cosx=

(-1 – 4cot x)*sinx=

-3*sin x


$1 + cot^2x = 1/sin^2x$
$sin^2 x = 1/(1+ ¼)$
$sin^2 x = 4/5$

Sin x = $\dfrac{2}{\sqrt{5}}$


Answer: $\dfrac{-6}{\sqrt{5}}$