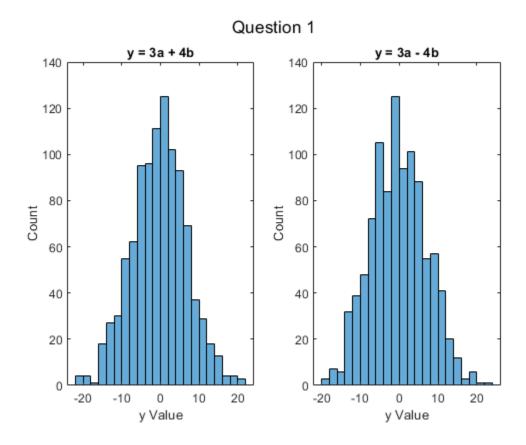
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clear;clc;close all sims = 1000;var a = 2;var b = 2;for i = 1 : 1000a = sqrt(var a) *randn(1); $b = sqrt(var_b)*randn(1);$ y(i) = 3*a + 4*b; $y_{minus(i)} = 3*a - 4*b;$ end sgtitle("Question 1") subplot(1,2,1)histogram(y) title("y = 3a + 4b") xlabel('y Value') ylabel('Count') subplot(1,2,2)histogram(y minus) title("y = 3a - 4b") xlabel('y Value') ylabel('Count')



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