

MATLAB: This is not meant to be a difficult problem. I just want you to get your hands dirty with MATLAB. Play around while you're at it and familiarize yourself with the basics. Maybe even walk through some tutorials (Google "MATLAB tutorials").

Let $a = [5, 7, -3, 2, 8, 16]$. Let x be the vector in terms of a which you have to solve for in exercise 17 section 1.1. Calculate $x - a$ and $2(x - 2a)$. According to exercise 17, these should be equal. Are they? (Hint: if they're not, you made a mistake in either exercise 17 or MATLAB)

I would like you to print out your code and turn it in. However, raw code is not very fun to read! Please summarize your conclusions; for example,

$$\begin{aligned}x - a &= \dots \\ 2(x - 2a) &= \dots\end{aligned}$$

These two quantities are equal, justifying the calculation in exercise 17.