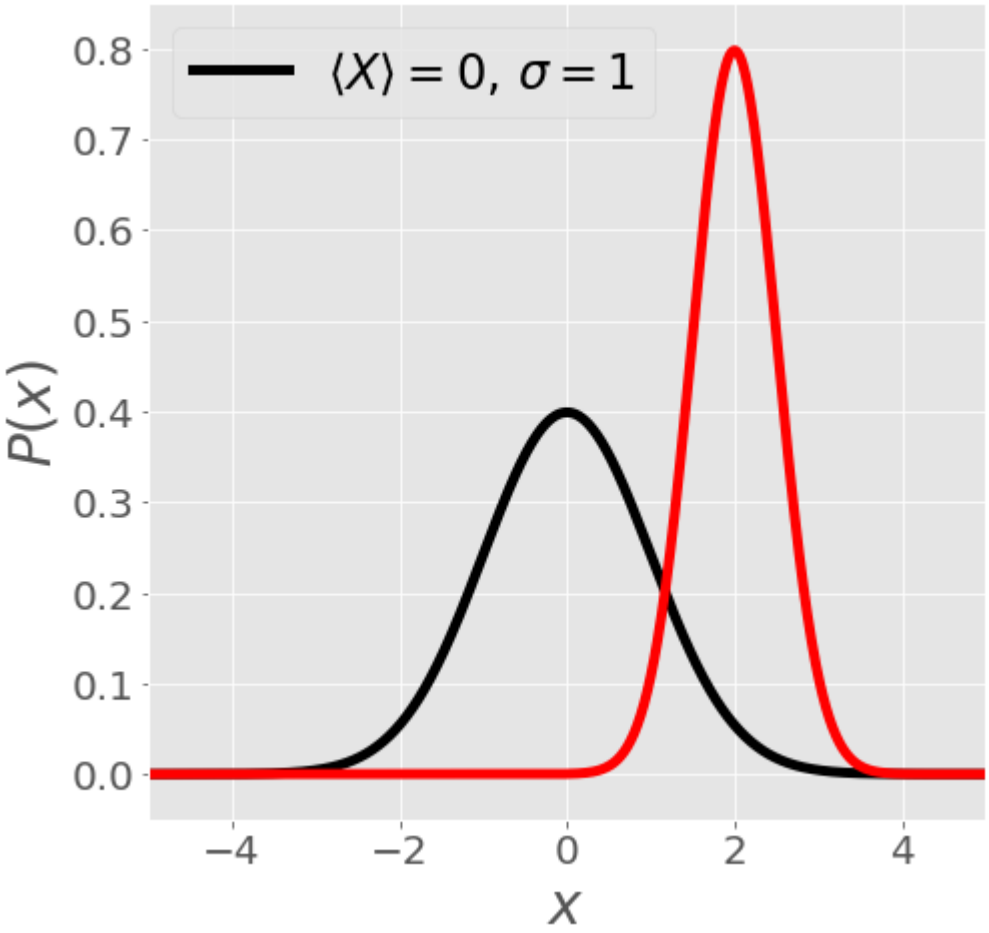
Problem (1-2)

Problem 1

0.0/1.0 point (graded)

In the following figure, the black line shows a normal distribution function $P(x)$ with mean $\langle X \rangle = 0$ and standard deviation $\sigma = 1$. Choose the correct combination of $\langle X \rangle$ and σ for the normal distribution function plotted in red.



- ◯ $\langle X \rangle = \sqrt{2}, \sigma = \sqrt{2}$
- ◯ $\langle X \rangle = 2, \sigma = 2$
- ◯ $\langle X \rangle = \sqrt{2}, \sigma = 4$
- ◯ $\langle X \rangle = 2, \sigma = 0.5$
- ◯ $\langle X \rangle = 2, \sigma = 0.5^2$

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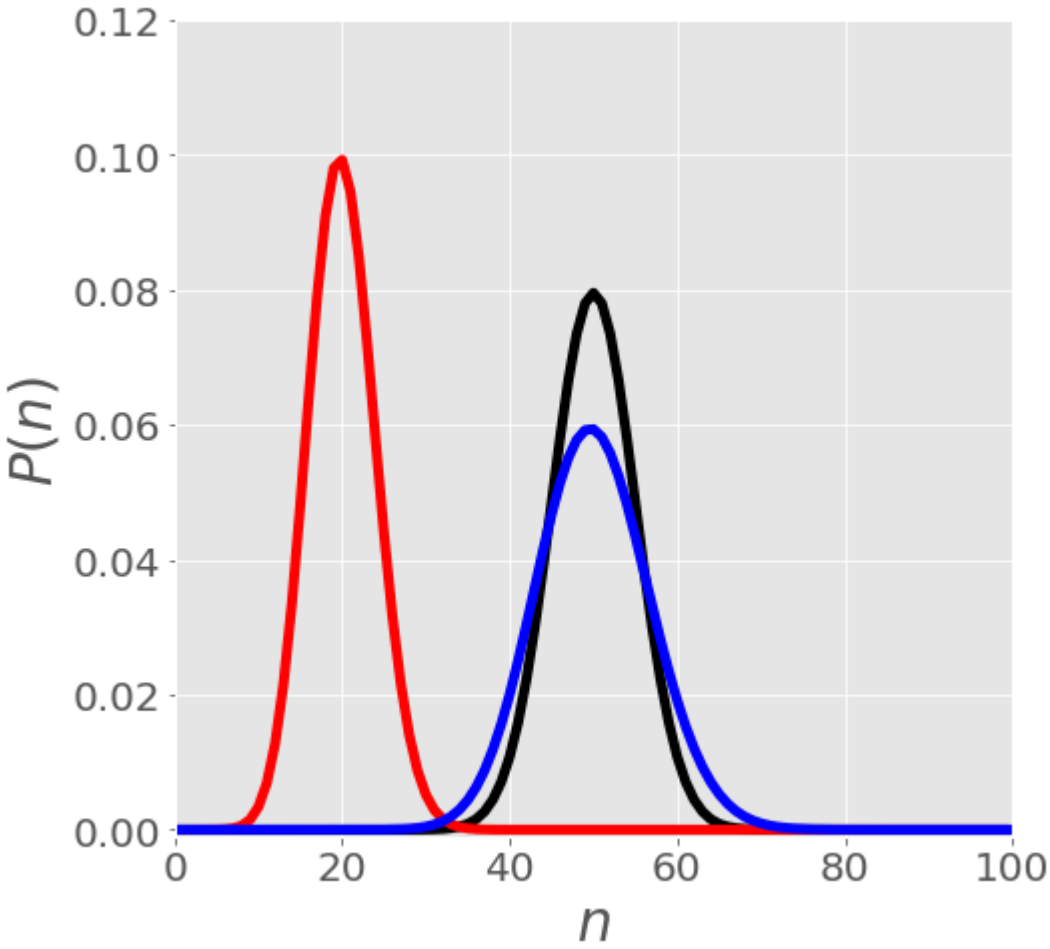
Problem 2

0.0/1.0 point (graded)

Three binomial distributions $P(n)$, with different sets of parameters p and M, are plotted in the following figure in different colors (Black, Red, and Blue). Choose the correct sets of parameter values for the Black, Red, and Blue distributions in the figure.



- Black $\{p = 2, M = 100\}$, Red $\{p = 1, M = 50\}$, Blue $\{p = 0.8, M = 100\}$
- Black $\{p = 0.5, M = 100\}$, Red $\{p = 0.2, M = 100\}$, Blue $\{p = 0.1, M = 500\}$
- Black $\{p = 0.1, M = 500\}$, Red $\{p = 0.2, M = 100\}$, Blue $\{p = 0.5, M = 100\}$
- Black $\{p = 0.1, M = 500\}$, Red $\{p = 0.4, M = 50\}$, Blue $\{p = 0.5, M = 100\}$
- Black $\{p = 0.5, M = 100\}$, Red $\{p = 0.4, M = 50\}$, Blue $\{p = 0.1, M = 500\}$

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