

COS 324, HW #1, Problem #1

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Part (a)

This is one way to format a code sample.

```
def sqr(x):  
    return x*x
```

```
print sqr(111)
```

Uncomment the line below in the source to insert an image.

Part (b)

Format in-line math like this: $x, y \in \mathbb{R}$. Single line breaks in your TeX source are treated like spaces. Double line breaks denote a new paragraph.

For longer equations, use display mode:

$$\rho(x) = \frac{1}{\sqrt{2\pi}\sigma} e^{-\frac{x^2}{2\sigma^2}}.$$

To format multi-line equations, you may want to use:

$$\begin{aligned} \Pr[X > 0] &= \int_0^{\infty} \frac{1}{\sqrt{2\pi}\sigma} e^{-\frac{x^2}{2\sigma^2}} dx \\ &= \frac{1}{2}. \end{aligned}$$