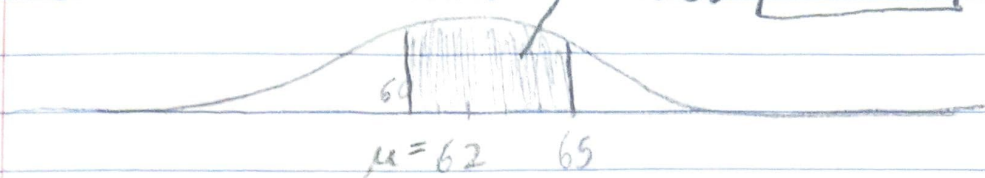


1. a.)

$$P(60 \leq X \leq 65) = 0.5205$$



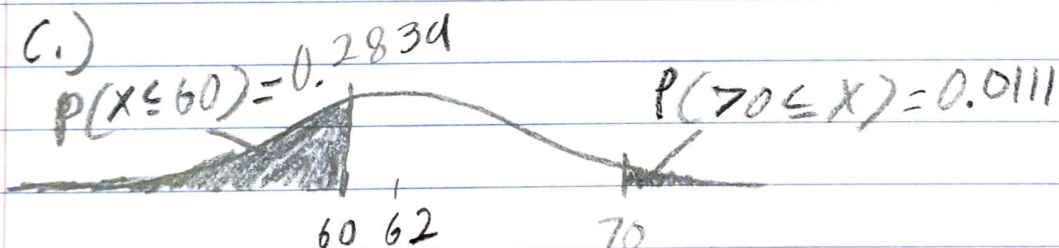
b.)



$$P(72 \leq X) = 0.0021$$

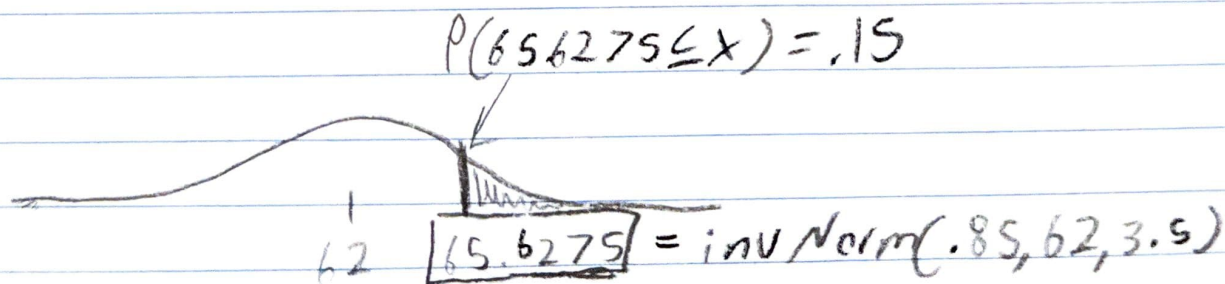
The probability is under 1%, so I would not expect to meet many Asian adult females over 72 in.

c.)



$$P(60 \leq X \leq 70) = 0.295$$

d.)



$$P(65.6275 \leq X) = .15$$

$$65.6275 = \text{invNorm}(.85, 62, 3.5)$$

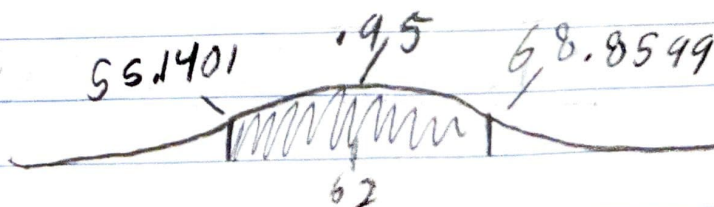
$$e.) 100 - 95 = 5$$

$$5/2 = 2.5 = .025$$

$$100 - 2.5 = 97.5 = .975$$

$$\text{invNorm}(.975, 62, 3.5) = 68.85987395$$

$$\text{invNorm}(.025, 62, 3.5) = 55.14012605$$



2. a.)

X	0	1	2	3	4	5
$P(X)$.0165	.1049	.2671	.34	.2164	.0551

b.) $P(X=3)$ is $\boxed{.34}$

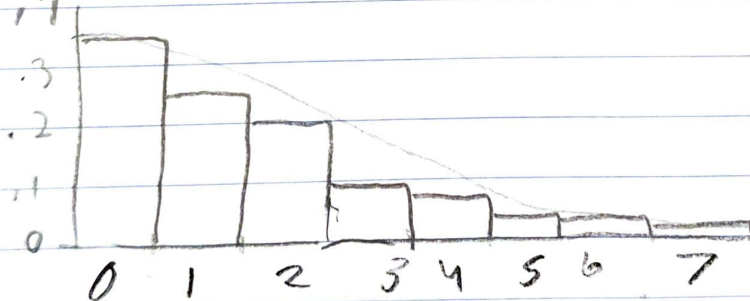
c.) $P(3 \leq X) = \boxed{.6114}$

d.) $P(X \leq 2) = \boxed{.3886}$

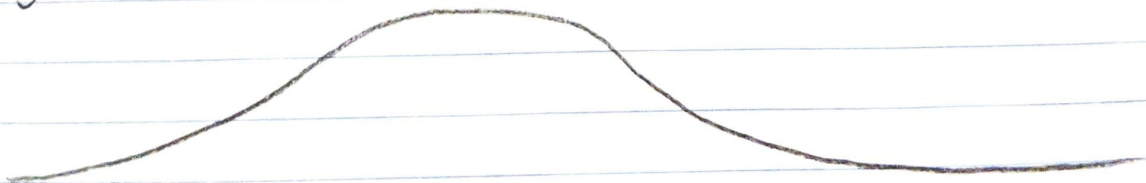
e.) $\mu = \boxed{2.8}$ people

f.) $\boxed{1.69 \text{ and } 3.91}$

3.) a.)



b.)



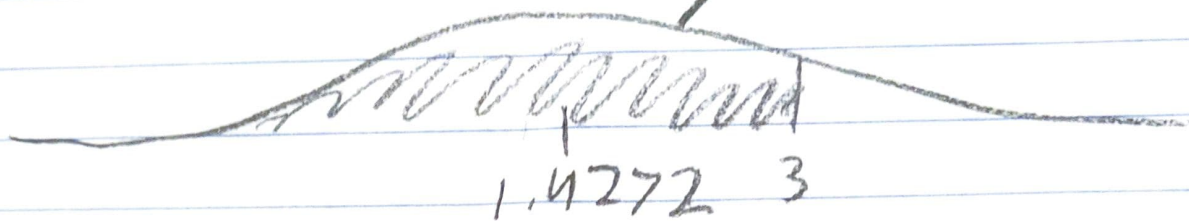
c.)

$P(X \leq 3) = \boxed{.88}$

d.)

$$\sigma = \frac{1.5223}{\sqrt{40}} = .246697$$

.999



e.)

5 items

f.)

g.)

(,)

h.)