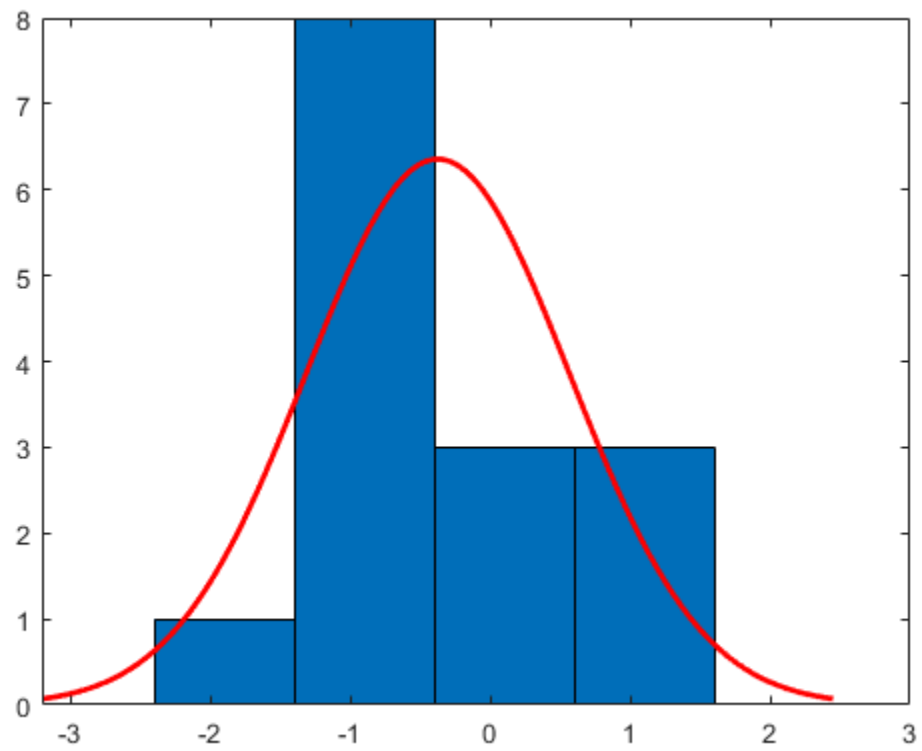
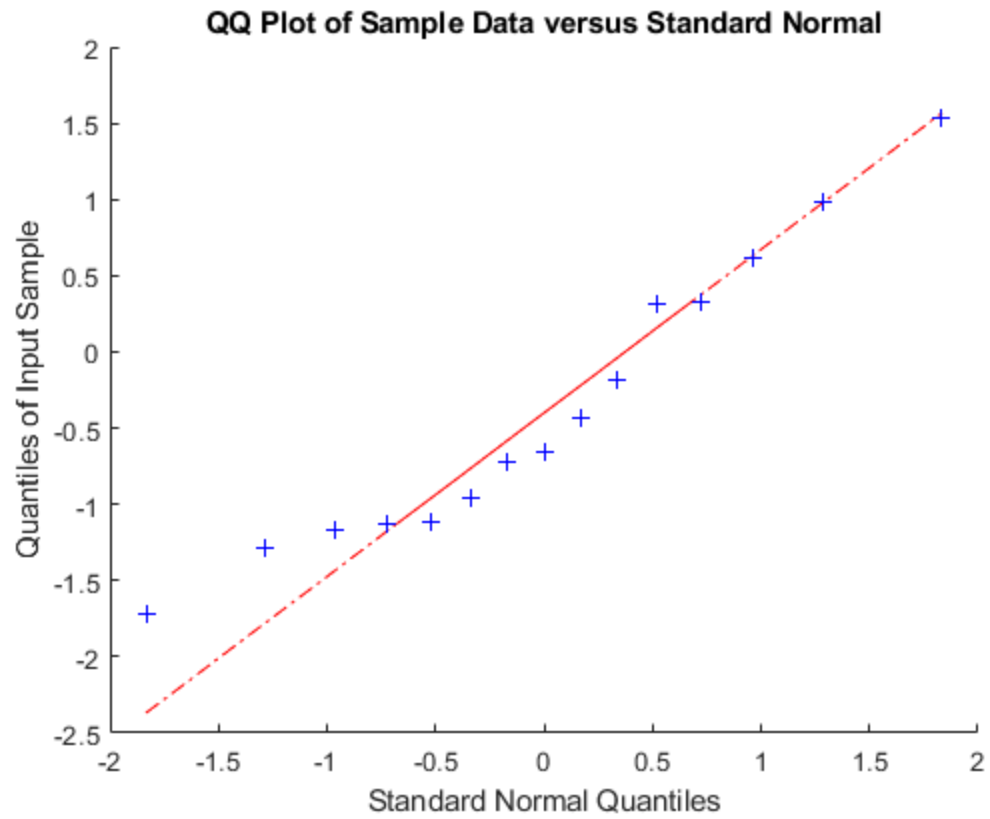


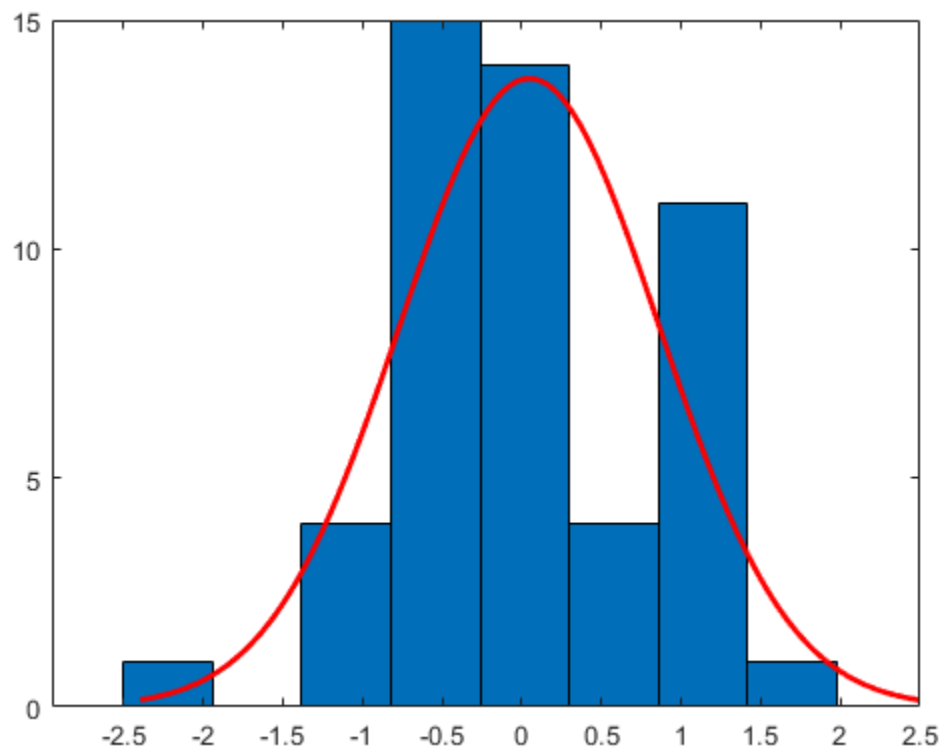
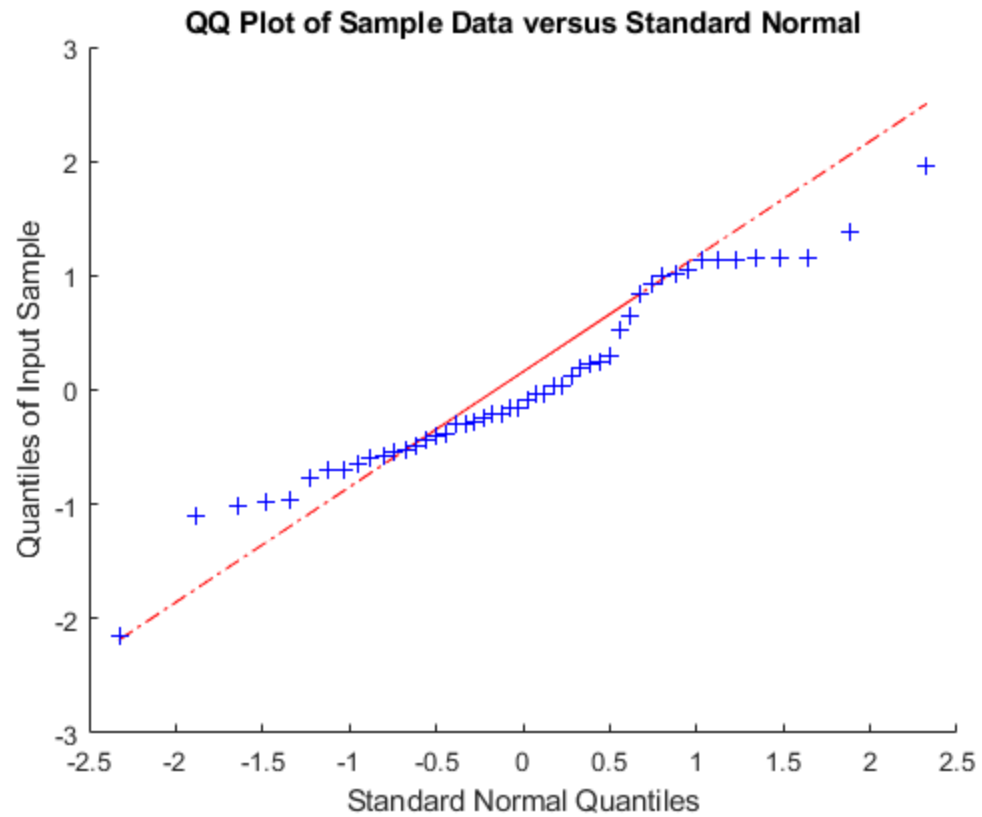
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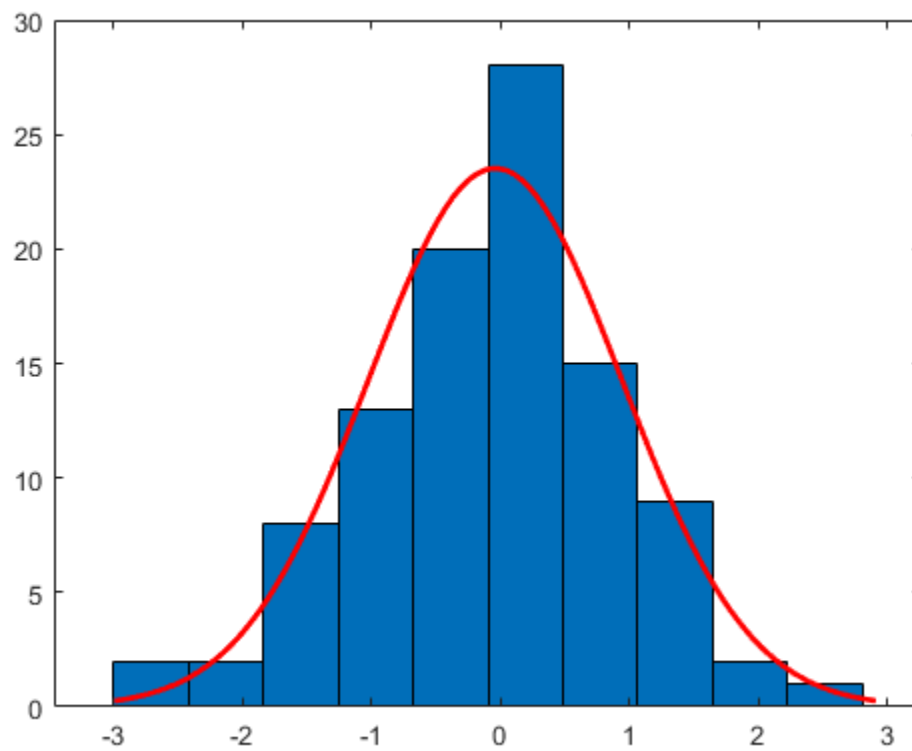
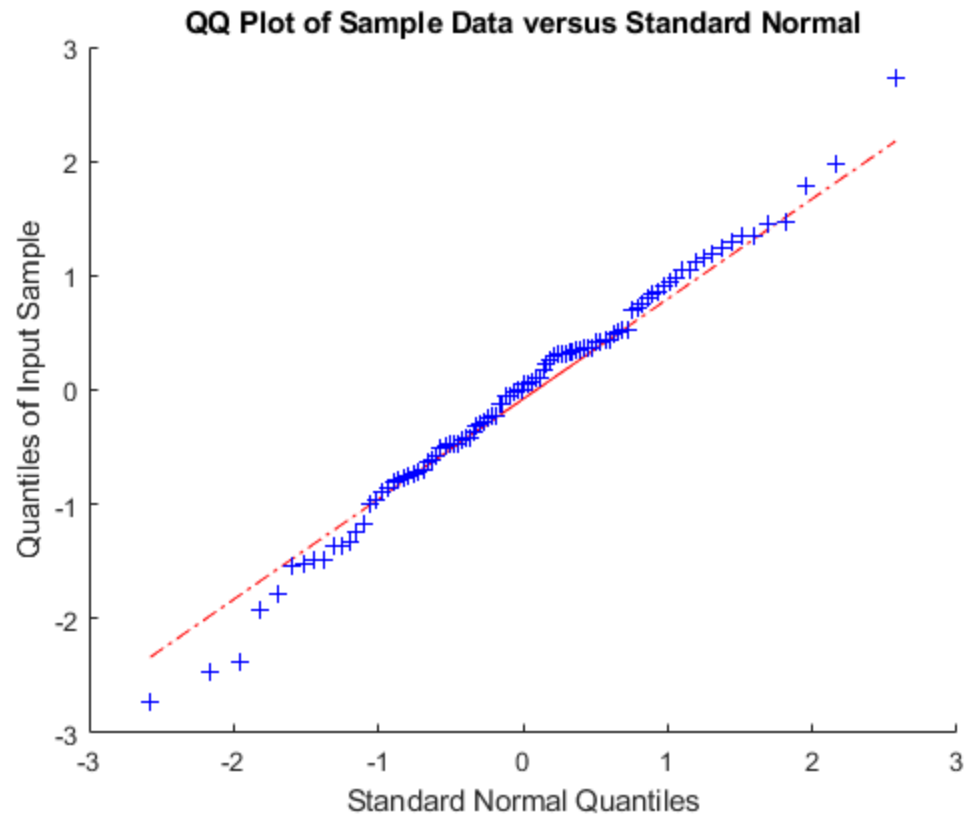
```
r = normrnd(0,1,[1 15]);
figure(1);
qqplot(r)
figure(2);
histfit(r)
% (a) The points on the QQ plot appear to fall around a straight line
% with
% some deviation. The histogram is unimodal but is not symmetric and
% is
% only very roughly bell-shaped. In general, the QQ plot is fairly
% close to
% the line but deviates further, the less symmetric and bell-shaped
% the
% histogram is.
r = normrnd(0,1,[1 50]);
figure(3);
qqplot(r)
figure(4);
histfit(r)

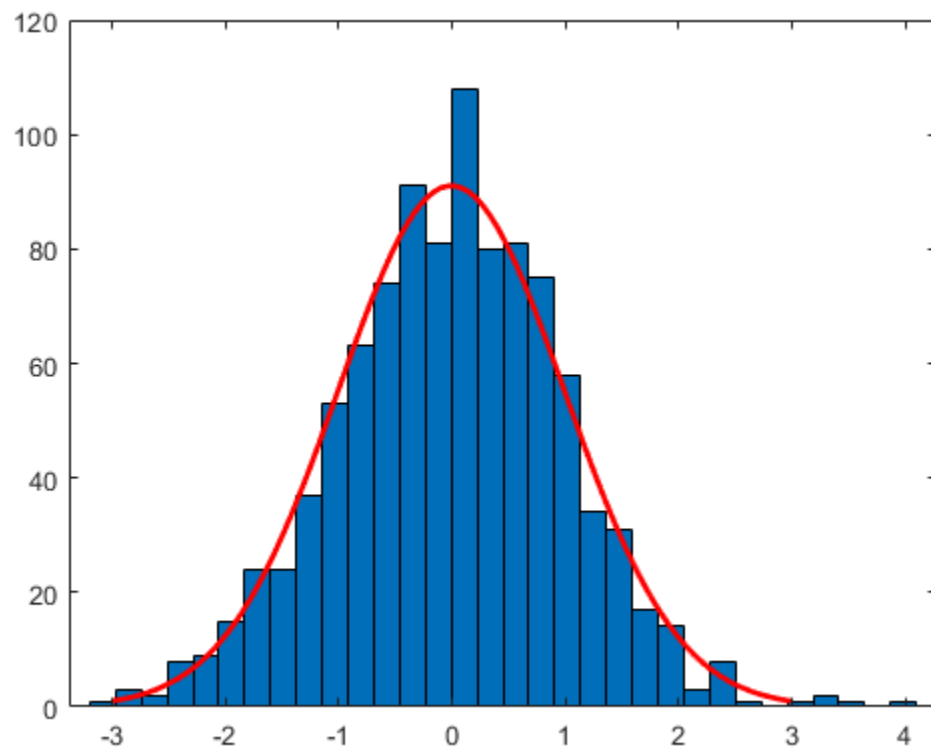
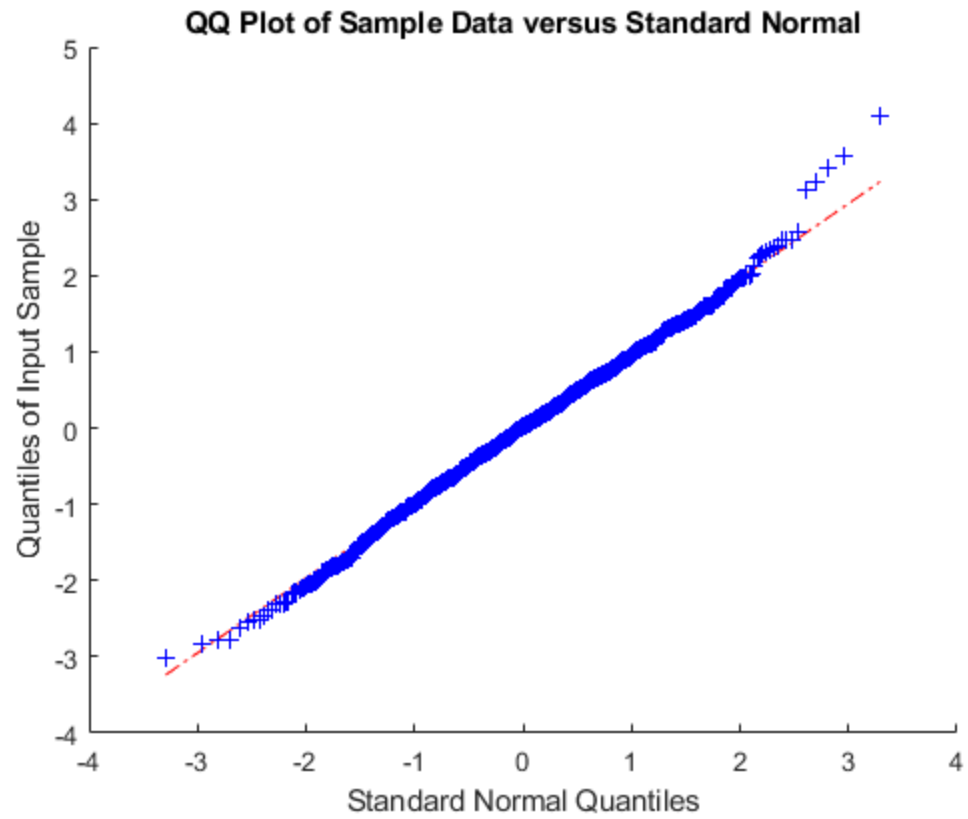
r = normrnd(0,1,[1 100]);
figure(5);
qqplot(r)
figure(6);
histfit(r)

r = normrnd(0,1,[1 1000]);
figure(7);
qqplot(r)
figure(8);
histfit(r)
% (b) Similar to (a), the points on the QQ plot appear to fall on the
% line
% with less deviation as we increase the number of points. Similarly,
% the
% histogram is more symmetric and bell-shaped with the more points
% used.
% (c) I would estimate the critical sample size to be around 1000 as
% at
% this number of points the plot doesn't deviate substantially from
% linearity.
```









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