

## qqplots.m

```
%% Heavy tails (t3)

nu = ones(1,100) * 3;

r = trnd(nu);

x = -5:0.01:5;

figure; hold on;
plot(x, tpdf(x, 3));
plot(x, normpdf(x));

legend("t_3", "N(0,1)");

figure;

qqplot(r);

%% Light tails (unif [0,1])

r = 2 .* rand(1,100) - 1;

figure; hold on;
plot(x, unifpdf(x, -1, 1));
plot(x, normpdf(x));

legend("Unif([-1,1])", "N(0,1)");

figure;

qqplot(r);

%% Right skewed (Exp(1))

mu = ones(1,100);

r = exprnd(mu);

figure; hold on;
plot(x, exppdf(x, 1));
plot(x, normpdf(x));

legend("Exp(1)", "N(0,1)");

figure;
```

```
qqplot(r);  
  
%% Left skewed (-Exp(1))  
  
mu = ones(1,100);  
  
r = -exprnd(mu);  
  
figure; hold on;  
plot(x, exppdf(-x, 1));  
plot(x, normpdf(x));  
  
legend("-Exp(1)", "N(0,1)");  
  
figure;  
  
qqplot(r);
```

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