Test title

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Contents

1	Section 1	2
2	Section 2	2
3	Section 3	3
4	Section 4 4.1 Sub-section	3

1 Section 1

Text in section 1.

Another text in section 1. We need to calculate $\binom{13}{9}$

[1] 42

2 Section 2

1. This is a subpoint 1. A lot of different text.bsaspsd ajalspd sjsjdlkso akhjcdohsh aslsdhkds kdsjdhkdshjk ksdg dskdsbkds dfddf.

Solution:

djklds sdkdsajklsd sacksdjlsad dsjldsjsad jdjdsjldas dckcdhsa:

$$P(X=2) = \frac{\binom{6}{2}\binom{5}{3}}{\binom{11}{5}}$$

dhyper(2, 6, 5, 5)

[1] 0.3246753

2. This is a subpoint 2. A lot of different text.bsaspsd ajalspd sjsjdlkso akhjcdohsh aslsdhkds kdsjdhkdshjk ksdg dskdsbkds dfddf. A lot of different text.bsaspsd ajalspd sjsjdlkso akhjcdohsh aslsdhkds kdsjdhkdshjk ksdg dskdsbkds dfddf.

Solution:

djklds sdkdsajklsd sacksdjlsad dsjldsjsad jdjdsjldas dckcdhsa:

$$P(X \ge 3) = P(X \le 2) = 1 - \frac{4567}{54678}$$

[1] 0.5

3. This is a subpoint 3.

3 Section 3

A text for section 3, bla-bla. Section 3 text.

• Sub-point for point 1 Solution:

$$P(X=10) = \binom{30}{10} 0.5^{10} 0.5^{20}$$

```
dbinom(10, 30, 0.5)
## [1] 0.0279816
```

• Sub-point for point 2. Solutions:

bns.dcds.c jlkkjhgfcghjkl;lknbv fgdskjhds dfjklskjdxkd jkskflkjnbcnm jklkjnvcm,xd klvkjcnfmz,x bn,kjhgfghjk ghjkl vjklkjhvcvhjk bjkjhbvbnm Need to calculate $P(X \ge 10)$.

$$P(X \ge 10) = 1 - P(X \le 9) = 1 - \sum_{i=0}^{9} {30 \choose i} 0.5^{i} 0.5^{30-i}$$

```
1-pbinom(9, 30, 0.5)
## [1] 0.978613
```

4 Section 4

In this example we embed parts of the examples from the kruskal.test help page into a IATEX document:

4.1 Sub-section

There is some text in the next sub-section

##		mpg	cyl	disp	hp	drat	wt	qsec	٧S	am	gear	carb
##	Mazda RX4	21.0	6	160	110	3.90	2.620	16.46	0	1	4	4
##	Mazda RX4 Wag	21.0	6	160	110	3.90	2.875	17.02	0	1	4	4
##	Datsun 710	22.8	4	108	93	3.85	2.320	18.61	1	1	4	1
##	Hornet 4 Drive	21.4	6	258	110	3.08	3.215	19.44	1	0	3	1
##	Hornet Sportabout	18.7	8	360	175	3.15	3.440	17.02	0	0	3	2
##	Valiant	18.1	6	225	105	2.76	3.460	20.22	1	0	3	1

Number of rows is: 32