Useful syntax and examples

Andy Mitchell

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Contents

1 Individual symbols

\therefore ∴	\frac{n}{n+1} $\frac{n}{n+1}$

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\frac{n}{n+1} $\frac{n}{n+1}$ (move to equation constructs)

$$= \frac{12}{51} \times \frac{11}{50} \times \frac{1}{4} \div \frac{1}{17} = \frac{12 \times 17 \times 11}{4 \times 51 \times 50} = \frac{11}{50}$$

$$= \frac{12}{51} \times \frac{11}{50} \times \frac{1}{4} \div \frac{1}{17} = \frac{12 \times 17 \times 11}{4 \times 51 \times 50} = \frac{11}{50}$$

fse

2 Playing only

Firstly, here is a paragraph.
Begin equation : CANNOT use line breaks \\ in this, so get an error :
`Overfull \hbox (87.92923pt too wide) detected at line 9 .`

$$\therefore \mathbf{P}(\text{no one is waiting at 9:00}) = \mathbf{P}(B_{8:55})e^{-1}+\mathbf{P}(B_{8:50})\mathbf{P}(B_{9:05})e^{-2}+\mathbf{P}(B_{8:40})\mathbf{P}(B_{9:05})e^{-4} = \frac{1}{4}(2e^{-1}+e^{-2}+$$

Begin multline (can use line breaks!)

$$\begin{aligned}\therefore \mathbf{P}&(\text{no one is waiting at 9:00})\\ &= \mathbf{P}(B_{8:55})e^{-1} + \mathbf{P}(B_{8:50})\mathbf{P}(B_{9:05})e^{-2} + \mathbf{P}(B_{8:40})\mathbf{P}(B_{9:05})e^{-4}\\ &= \frac{1}{4}(2e^{-1} + e^{-2} + e^{-4})\end{aligned}$$

Separate equations :

$$\begin{aligned}&\therefore \mathbf{P}(\text{no one is waiting at 9:00})\\ &= \mathbf{P}(B_{8:55})e^{-1} + \mathbf{P}(B_{8:50})\mathbf{P}(B_{9:05})e^{-2} + \mathbf{P}(B_{8:40})\mathbf{P}(B_{9:05})e^{-4}\\ &= \frac{1}{4}(2e^{-1} + e^{-2} + e^{-4})\end{aligned}$$

IEEE rCl:

$$\begin{aligned}&\therefore \mathbf{P}(\text{no one is waiting at 9:00})\\ &= \mathbf{P}(B_{8:55})e^{-1} + \mathbf{P}(B_{8:50})\mathbf{P}(B_{9:05})e^{-2} + \mathbf{P}(B_{8:40})\mathbf{P}(B_{9:05})e^{-4}\\ &= \frac{1}{4}(2e^{-1} + e^{-2} + e^{-4})\end{aligned}$$

IEEE lr:

$$\begin{aligned}&\therefore \mathbf{P}(\text{no one is waiting at 9:00})\\ &= \mathbf{P}(B_{8:55})e^{-1} + \mathbf{P}(B_{8:50})\mathbf{P}(B_{9:05})e^{-2} + \mathbf{P}(B_{8:40})\mathbf{P}(B_{9:05})e^{-4}\\ &= \frac{1}{4}(2e^{-1} + e^{-2} + e^{-4})\end{aligned}$$

IEEE l with a couple of qquads:

$$\begin{aligned}&\therefore \mathbf{P}(\text{no one is waiting at 9:00})\\ &\quad= \mathbf{P}(B_{8:55})e^{-1} + \mathbf{P}(B_{8:50})\mathbf{P}(B_{9:05})e^{-2} + \mathbf{P}(B_{8:40})\mathbf{P}(B_{9:05})e^{-4}\\ &\quad= \frac{1}{4}(2e^{-1} + e^{-2} + e^{-4})\end{aligned}$$