

1106-VX-2079 **Colm Mulcahy*** (colm@spelman.edu). *The Fitch Cheney Five Card Trick for Three Cards.*

The classic The Fitch Cheney Five Card Trick sees a mathemagician given five random cards from a regular deck, one of which she hides. She shows the other four in a face-up row to an accomplice, who is able to figure out what the hidden one is, using only mathematics. Fifteen years ago, the author modified this to work where given any four cards, three were shown in a row, and the identity of the fourth was correctly deduced by the accomplice. (Some of the displayed cards might be face down there.) Even better, given any three cards, we'll show how it's possible to show all of them in a row, and the accomplice can name one of the face-down cards. (Received September 15, 2014)