

TABLE 316: Math Alphabets

| Font sample             | Generating command                   | T <sub>E</sub> X font | Required package                                    |
|-------------------------|--------------------------------------|-----------------------|---|
| ABCdef123               | <code>\mathrm{ABCdef123}</code>      | cmr10                 | <i>none</i>   |
| <i>ABCdef123</i>        | <code>\mathit{ABCdef123}</code>      | cmmi10                | <i>none</i>   |
| <i>ABCdef</i> 123       | <code>\mathnormal{ABCdef123}</code>  | cmmi10                | <i>none</i>   |
| <i>ABC</i>              | <code>\mathcal{ABC}</code>           | cmsy10                | <i>none</i>   |
| <i>ABC</i>              | <code>\mathscr{ABC}</code>           | rsfs10                | mathrsfs  |
|                         | <i>or</i> <code>\mathcal{ABC}</code> | rsfs10                | calrsfs   |
| <i>ABC</i>              | <code>\mathcal{ABC}</code>           | eusm10                | euscript with the mathcal option                    |
|                         | <i>or</i> <code>\mathscr{ABC}</code> | eusm10                | euscript with the mathscr option                    |
| <i>ABC</i>              | <code>\mathcal{ABC}</code>           | rsfso10               | rsfso   |
|                         | <i>or</i> <code>\mathscr{ABC}</code> | rsfso10               | rsfso with the scr option                           |
| <i>ABC</i>              | <code>\mathcal{ABC}</code>           | urwchancal            | urwchancal*   |
|                         | <i>or</i> <code>\mathscr{ABC}</code> | urwchancal            | urwchancal* with the mathscr option                 |
| ABC                     | <code>\mathbb{ABC}</code>            | msbm10                | amsfonts, <sup>§</sup> amssymb, txfonts, or pxfonts |
| <b>ABC</b>              | <code>\varmathbb{ABC}</code>         | txmia                 | txfonts or pxfonts                                  |
| ABCdef123               | <code>\mathbb{ABCdef123}</code>      | bbold10               | bbold or mathbbol <sup>†</sup>                      |
| ABCdef123               | <code>\mathbb{ABCdef123}</code>      | mbb10                 | mbboard <sup>†</sup>                                |
| ABCdef12                | <code>\mathbbm{ABCdef12}</code>      | bbm10                 | bbm   |
| ABCdef12                | <code>\mathbbmss{ABCdef12}</code>    | bbmss10               | bbm   |
| ABCdef12                | <code>\mathbbmmtt{ABCdef12}</code>   | bbmmtt10              | bbm   |
| ABC1                    | <code>\mathds{ABC1}</code>           | dsrom10               | dsfont  |
| <b>ABC1</b>             | <code>\mathds{ABC1}</code>           | dsss10                | dsfont with the sans option                         |
| ABCdef123               | <code>\mathbb{ABCdef123}</code>      | DSSerif               | ds serif  |
| <b>ABCdef123</b>        | <code>\mathbbb{ABCdef123}</code>     | DSSerif-Bold          | ds serif  |
| ABC                     | <code>\symA\symB\symC</code>         | china10               | china2e <sup>‡</sup>                                |
| $\frac{ABCdef123}{123}$ | <code>\mathfrak{ABCdef123}</code>    | eufm10                | eufrak  |
| $\frac{ABCdef123}{123}$ | <code>\textfrak{ABCdef123}</code>    | yfrak                 | yfonts <sup>¶</sup>                                 |
| $\frac{ABCdef123}{123}$ | <code>\textswab{ABCdef123}</code>    | yswab                 | yfonts <sup>¶</sup>                                 |
| $\frac{ABCdef123}{123}$ | <code>\textgoth{ABCdef123}</code>    | ygoth                 | yfonts <sup>¶</sup>                                 |