

Purple Book.

P. 181 # 28-31 & 37-45

$$28. \quad 4x \left| \begin{array}{cc} 16x & 36x \\ \hline 4 & 9 \end{array} \right.$$

GCF: $4x$

$$29. \quad m \left| \begin{array}{cc} 18m^2 & 7m \\ \hline 18m & 7 \end{array} \right.$$

GCF: m

$$30. \quad 3k \left| \begin{array}{cc} 18k & 15k^3 \\ \hline 6 & 5k^2 \end{array} \right.$$

GCF: $3k$

$$31. \quad 2x \left| \begin{array}{ccc} 2x & 8x^2 & 6x^3 \\ \hline 1 & 4x & 3x^2 \end{array} \right.$$

GCF: $2x$

$$37. \quad 2m^2n \left| \begin{array}{l} 12m^2n^3 \\ 70m^3n \\ \hline 6n^2 \\ 35m \end{array} \right.$$

GCF: $2m^2n$

$$38. \quad 2a \left| \begin{array}{l} 72a^3b^2 \\ 86a \\ \hline 36a^2b^2 \\ 43 \end{array} \right.$$

GCF: $2a$

$$39. \quad 4mn \left| \begin{array}{l} 44m^2n \\ 48mn^2 \\ \hline 11m \\ 12n \end{array} \right.$$

GCF: $4mn$

$$40. \quad ab^3 \left| \begin{array}{l} a^2b^3 \\ ab^3 \\ \hline a \\ 1 \end{array} \right.$$

GCF: ab^3

$$41. \quad x \left| \begin{array}{cc} 3x & 7xy^2 \\ \hline 3 & 7y^2 \end{array} \right.$$

GCF: x

$$42. \quad s \left| \begin{array}{cc} 4rs^2 & 27st^3 \\ \hline 4rs & 27t^3 \end{array} \right.$$

GCF: s

$$43. \quad 9wx \left| \begin{array}{cc} 18wx^2 & 45wx \\ \hline 2x & 5 \end{array} \right.$$

GCF: $9wx$

$$44. \quad y \left| \begin{array}{ccc} 12y^2 & 15y^3 & 5y \\ \hline 12y & 15y^2 & 5 \end{array} \right.$$

GCF: y

$$4s, s \mid rs^3 \quad s^3t \quad r^2st^2$$

$$rs^2 \quad s^2t \quad r^2t^2$$

GCF: s^2