



Factor each expression completely.

1) $-\frac{24}{72}b - \frac{20}{27} = \underline{\hspace{2cm}} (\hspace{0.5cm} b + \hspace{0.5cm})$

2) $\frac{4}{45}c - \frac{24}{45} = \underline{\hspace{2cm}} (\hspace{0.5cm} c - \hspace{0.5cm})$

3) $\frac{6}{36}d - \frac{6}{36} = \underline{\hspace{2cm}} (\hspace{0.5cm} d - \hspace{0.5cm})$

4) $\frac{16}{30}e + \frac{16}{35} = \underline{\hspace{2cm}} (\hspace{0.5cm} e + \hspace{0.5cm})$

5) $-\frac{3}{12}f - \frac{3}{48} = \underline{\hspace{2cm}} (\hspace{0.5cm} f + \hspace{0.5cm})$

6) $\frac{8}{30}g + \frac{2}{48} = \underline{\hspace{2cm}} (\hspace{0.5cm} g + \hspace{0.5cm})$

7) $-\frac{6}{40}h + \frac{9}{72} = \underline{\hspace{2cm}} (\hspace{0.5cm} h - \hspace{0.5cm})$

8) $\frac{12}{72}i - \frac{16}{64} = \underline{\hspace{2cm}} (\hspace{0.5cm} i - \hspace{0.5cm})$

9) $-\frac{6}{21}j - \frac{6}{56} = \underline{\hspace{2cm}} (\hspace{0.5cm} j + \hspace{0.5cm})$

10) $-\frac{8}{72}k + \frac{12}{81} = \underline{\hspace{2cm}} (\hspace{0.5cm} k - \hspace{0.5cm})$

Answers

1. $\underline{\hspace{2cm}} (\hspace{0.5cm} b + \hspace{0.5cm})$

2. $\underline{\hspace{2cm}} (\hspace{0.5cm} c - \hspace{0.5cm})$

3. $\underline{\hspace{2cm}} (\hspace{0.5cm} d - \hspace{0.5cm})$

4. $\underline{\hspace{2cm}} (\hspace{0.5cm} e + \hspace{0.5cm})$

5. $\underline{\hspace{2cm}} (\hspace{0.5cm} f + \hspace{0.5cm})$

6. $\underline{\hspace{2cm}} (\hspace{0.5cm} g + \hspace{0.5cm})$

7. $\underline{\hspace{2cm}} (\hspace{0.5cm} h - \hspace{0.5cm})$

8. $\underline{\hspace{2cm}} (\hspace{0.5cm} i - \hspace{0.5cm})$

9. $\underline{\hspace{2cm}} (\hspace{0.5cm} j + \hspace{0.5cm})$

10. $\underline{\hspace{2cm}} (\hspace{0.5cm} k - \hspace{0.5cm})$



Factor each expression completely.

$$1) -\frac{24}{72}b - \frac{20}{27} = \underline{-\frac{4}{9}\left(\frac{6}{8}b + \frac{5}{3}\right)}$$

$$2) \frac{4}{45}c - \frac{24}{45} = \underline{\frac{4}{45}\left(\frac{1}{1}c - \frac{6}{1}\right)}$$

$$3) \frac{6}{36}d - \frac{6}{36} = \underline{\frac{6}{36}\left(\frac{1}{1}d - \frac{1}{1}\right)}$$

$$4) \frac{16}{30}e + \frac{16}{35} = \underline{\frac{16}{5}\left(\frac{1}{6}e + \frac{1}{7}\right)}$$

$$5) -\frac{3}{12}f - \frac{3}{48} = \underline{-\frac{3}{12}\left(\frac{1}{1}f + \frac{1}{4}\right)}$$

$$6) \frac{8}{30}g + \frac{2}{48} = \underline{\frac{2}{6}\left(\frac{4}{5}g + \frac{1}{8}\right)}$$

$$7) -\frac{6}{40}h + \frac{9}{72} = \underline{-\frac{3}{8}\left(\frac{2}{5}h - \frac{3}{9}\right)}$$

$$8) \frac{12}{72}i - \frac{16}{64} = \underline{\frac{4}{8}\left(\frac{3}{9}i - \frac{4}{8}\right)}$$

$$9) -\frac{6}{21}j - \frac{6}{56} = \underline{-\frac{6}{7}\left(\frac{1}{3}j + \frac{1}{8}\right)}$$

$$10) -\frac{8}{72}k + \frac{12}{81} = \underline{-\frac{4}{9}\left(\frac{2}{8}k - \frac{3}{9}\right)}$$

Answers

$$1. \underline{-\frac{4}{9}\left(\frac{6}{8}b + \frac{5}{3}\right)}$$

$$2. \underline{\frac{4}{45}\left(\frac{1}{1}c - \frac{6}{1}\right)}$$

$$3. \underline{\frac{6}{36}\left(\frac{1}{1}d - \frac{1}{1}\right)}$$

$$4. \underline{\frac{16}{5}\left(\frac{1}{6}e + \frac{1}{7}\right)}$$

$$5. \underline{-\frac{3}{12}\left(\frac{1}{1}f + \frac{1}{4}\right)}$$

$$6. \underline{\frac{2}{6}\left(\frac{4}{5}g + \frac{1}{8}\right)}$$

$$7. \underline{-\frac{3}{8}\left(\frac{2}{5}h - \frac{3}{9}\right)}$$

$$8. \underline{\frac{4}{8}\left(\frac{3}{9}i - \frac{4}{8}\right)}$$

$$9. \underline{-\frac{6}{7}\left(\frac{1}{3}j + \frac{1}{8}\right)}$$

$$10. \underline{-\frac{4}{9}\left(\frac{2}{8}k - \frac{3}{9}\right)}$$