

**BA101 – EXERCISE 1.1 (NO NEED TO SUBMIT)**

1. Simplify the following algebra fractions to lowest terms.

a)  $\frac{4m}{12m}$

b)  $\frac{27n^2}{36n}$

c)  $\frac{9p}{10p}$

d)  $\frac{-5q^2}{25q^6}$

e)  $\frac{12a^3b}{-8ac}$

f)  $\frac{2ax + 2bx}{6x^2}$

2. Solve and simplify to lowest terms.

a)  $\frac{5x-7}{x} - \frac{2x+4}{x}$

b)  $-\frac{11m}{m^2} - \frac{5m}{m^2} + \frac{6m}{m^2}$

c)  $f^2 + \frac{2}{f}$

d)  $\frac{2g+5}{3g^2} - \frac{g-2}{4g}$

e)  $-\frac{3c-7}{2c} - \frac{3c-3}{6c^2}$

f)  $6y - \frac{2y}{x+y}$

g)  $\frac{5}{x-3} + \frac{7}{2x-6}$

3. Multiply and simplify to lowest terms.

a)  $\frac{8}{12} \times \frac{30a}{36}$

b)  $-\frac{36}{9y} \times \frac{5y}{9y}$

c)  $-\frac{5}{m^{\frac{3}{2}}} \times m^{\frac{2}{3}}$

d)  $\frac{6r^2}{5s^2} \times \frac{10rs}{6r^3}$

e)  $\frac{x^2-5x+6}{3x} \times \frac{2}{4x-12}$

4. Divide and simplify to lowest terms.

g)  $\frac{6h^2g+9hg^2}{12gh}$

h)  $\frac{14}{-7r+21s}$

i)  $\frac{12t+12u}{3t+3u}$

j)  $\frac{v^2-9}{3v+9}$

k)  $\frac{2w^2-50}{w^2+8w+15}$

l)  $\frac{-r^2+r+6}{3r-9}$

h)  $\frac{k}{k^2-36} - \frac{4}{3k+18}$

i)  $\frac{a+1}{a+1} + \frac{1}{a+1}$

j)  $x-5 - \frac{x}{x+3}$

k)  $\frac{2m-1}{m+2} + 2m-3$

l)  $\frac{7a}{(a-1)(a+3)} + \frac{2a+5}{(a+3)(a+2)}$

m)  $\frac{2a+7}{a^2-2a-15} - \frac{3a-4}{a^2-7a+10}$

f)  $\frac{(a-2)^2}{4b} \times \frac{16b^2}{4-a^2}$

g)  $\frac{d^2-25}{4-d^2} \times \frac{5d^2-20}{d+5}$

h)  $\frac{x^2-x-2}{5} \times \frac{125}{x^2-4}$

i)  $\frac{k^2-4}{6k+12} \times \frac{12-4k}{-k^2+5k-6}$

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