

## MCR3U – 1.0 - Review of Prerequisite Skills

### STATION R

Evaluate.

a)  $\frac{-5}{6} + \frac{3}{5}$

b)  $\frac{1}{3} - \left(\frac{-1}{12}\right)$

c)  $\frac{-3}{16} \left(\frac{8}{15}\right)$

d)  $\frac{1}{4} \div \frac{1}{32}$

e)  $\frac{5}{10} + \frac{2}{4} - \left(\frac{2}{6} \times \frac{1}{3}\right)$

### STATION E<sub>1</sub>

Simplify.

a)  $\frac{-1}{4}(4w - 6) - \frac{3}{5}(6w - 10)$

b)  $4x - (3x - 1) - 3 + 6(x - 2)$

### STATION V

Solve.

a)  $5(x - 3) - 2x = -6$

b)  $4y - (3y - 1) = 6(y - 2)$

c)  $\frac{2m+1}{3} - \frac{m+1}{4} = 3$

## STATION I

a) Solve the system by the method of substitution.

$$\begin{aligned}11x - y &= 21 \\ 9x + 2y &= -11\end{aligned}$$

b) Solve the system by the method of elimination.

$$\begin{aligned}x + 2y &= -4 \\ 3x - 4y &= 18\end{aligned}$$

## STATION E<sub>2</sub>

Simplify.

a)  $\left(\frac{2x^2}{3}\right)\left(\frac{5x^3}{4}\right)$

e)  $(2b-1)(5b+3)$

b)  $(2x^2y^3)^3(4xy^2)$

f)  $(x-6)^2$

c)  $\left(\frac{3x}{2}\right) \div \left(\frac{x^3}{5}\right)$

g)  $(3m-2)(3m+2)$

d)  $(25x^3y^3) \div (5x^2y)$

## STATION W

Factor.

a)  $7t^2 - 14t^3$

b)  $4xy - 2xz + 10x$

c)  $25x^2 - 9$

d)  $a^2 - 7a + 10$

e)  $6m^2 - m - 12$

f)  $16z^2 - 24z + 9$