

## U3\_L1\_Review of Prerequisite Skills

**MHF4UI REVIEW OF PREREQUISITE SKILLS****PART 1: SIMPLIFYING RADICAL EXPRESSIONS**

Simplify:

a)  $\sqrt{20}$

b)  $\sqrt{48}$

c)  $\sqrt{2} \times \sqrt{14}$

d)  $\frac{\sqrt{180}}{\sqrt{10}}$

e)  $-3\sqrt{12} + 3\sqrt{20} + 3\sqrt{3}$

f)  $-\sqrt{2}(\sqrt{10} - 4\sqrt{6})$

g)  $(-7 + \sqrt{6})(1 - \sqrt{6})$

**PART 2: RATIONALIZING THE DENOMINATOR**

a)  $\frac{4}{\sqrt{10}}$

b)  $\frac{\sqrt{3}}{\sqrt{8}}$

c)  $\frac{1}{3\sqrt{2}}$

d)  $\frac{3}{2+\sqrt{5}}$

e)  $\frac{5}{3-2\sqrt{6}}$

f)  $\frac{\sqrt{7}-\sqrt{5}}{\sqrt{5}+\sqrt{7}}$

**PART 3: FINDING THE EQUATION OF A LINE**

Find the equation of the line passing through A (-8, 1) and B (4, -3).