

(8) (a) simplify $\frac{10}{3\sqrt{5}}$ [2]

(b) simplify $\sqrt{396}$ [2]

(c) simplify $\frac{3\sqrt{7}}{4+\sqrt{7}}$ [4]

(d) simplify $\frac{(4-\sqrt{3})(4+\sqrt{3})}{\sqrt{13}}$ [2]

(e) simplify $(\sqrt{a} + \sqrt{4b})(\sqrt{a} - 2\sqrt{b})$ [3]

(f) Show that $\frac{1}{1 + \frac{1}{\sqrt{2}}}$ can be written as $2 - \sqrt{2}$ [3]

(g) Show $(1 + \sqrt{3})^2$ can be written in the form $a + b\sqrt{3}$ [3]

(9) Write the following in ascending order [2]

$\sqrt{35}$ $\frac{20}{3}$ 2.5^2 6.83