NSRWS - 4

Q1 Simplify the following

a) $\sqrt{2}(4\sqrt{3} - 2\sqrt{2}) = _\sqrt{_} \quad _ \quad _$

b) $(4\sqrt{3} - 2\sqrt{2})(4\sqrt{3} - 2\sqrt{2})$

$= (_\sqrt{_} - _\sqrt{_})^2$

$= (_\sqrt{_})^2 + (_\sqrt{_})^2 - 2(_\sqrt{_})(_\sqrt{_})$

$= _ + _ - _\sqrt{_}$

$= _ - _\sqrt{_}$

c) $(3\sqrt{2} + 4\sqrt{3})(3\sqrt{2} + 4\sqrt{3})$

$= (_\sqrt{_} + _\sqrt{_})^2$

$= (_\sqrt{_})^2 + (_\sqrt{_})^2 + 2(_\sqrt{_})(_\sqrt{_})$

$= _ + _ + _\sqrt{_}$

made with ziteboard

LIVEWORKSHEETS

$= __ + _\sqrt{_}$

Q4) $(4\sqrt{3} - 2\sqrt{2})(3\sqrt{2} + 4\sqrt{3})$

$= _\sqrt{_}(\underline{3}\sqrt{\underline{2}} + _\sqrt{_}) - _\sqrt{_}(_\sqrt{_} + 4\sqrt{3})$

$= _\sqrt{_} + __ - __ - _\sqrt{_}$

$= _\sqrt{_} + __$

made with ziteboard

LIVEWORKSHEETS