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M1.(a) (i) Correct formula \(\checkmark\), substitution \(\checkmark\), calculation, \(50 \checkmark\),
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M2.(a) (i) so it does not load the demodulator $\checkmark$
(ii) non-inverting amplifier $\checkmark$
(iii)
$270 \mathrm{k} \Omega$ feedback R

(iv) $10 \mathrm{mV} \times+28 \checkmark=280 \mathrm{mV} \checkmark$
(b) $\left(1 \times 10^{6}\right) \div 28=35.7 \mathrm{kHz} \checkmark \checkmark$ suitable for audio sigs (max 20kHz)
(c) push-pull source follower diagram $\sqrt{ }$ correct n channel symbol upper $\checkmark$ correct p channel symbol lower $\checkmark$ diode / resistor biasing

