

$9a^r = 2a + a + r a, a \rightarrow r(a+d)^r = 2(a+rd)a + r(a+d)a$ $\rightarrow 9a^r + rad + rad^r = 2a^r + 2a + rad + rad^r \rightarrow -7a^r - ad + rd^r = 0$ $\xrightarrow{G_{r'}} a^r - ad - rd^r = 0 \Rightarrow (a - rd)(a + rd) \rightarrow a = \frac{rd}{-r} = -rd$ $\frac{a}{d} \rightarrow \frac{-rd + rd}{d} = 1 \checkmark$ $\frac{1 + rd + rd}{d} = 5a \checkmark$	8
$b = \frac{a+c}{r}$ $\left(\frac{a}{r}\right) \mid \frac{be}{r} \rightarrow a^r = be \rightarrow a^r = \frac{(a+c)}{r} \times c \rightarrow$ $a^r = \frac{ac + c^r}{r} \rightarrow ra^r - ac - c^r = 0 \xrightarrow{G_{r'}} a^r - ac - r c^r \rightarrow (a - rc)(a + rc) = 0 \rightarrow a = \frac{rc}{r} = c \checkmark$ $a_n = b, \frac{a}{r}, \frac{c}{r} \rightarrow a_n = b, \frac{-c}{r}, \frac{c}{r}$ $q = -1 \rightarrow -1 \times r(-1) = -r \checkmark$	9
$ra = \frac{rb+c}{r} \Rightarrow ra = rb+c \rightarrow a = \frac{rb+c}{r}$ $b^r = ac \Rightarrow b = \frac{rb+c}{r} \rightarrow r b^r - rbc - c^r = 0 \rightarrow crb - rc / (rb+c) = 0$ $a = \frac{c}{b} = -r \rightarrow \frac{a}{a_f} = q^r = (-r)^r = -r^r \checkmark$ $b = -\frac{1}{r}c$	10
$\frac{aq^r}{arqr} = \frac{aq}{ar} = r \rightarrow \frac{q^r}{ar} + \frac{aq}{ar} = r \rightarrow q^r + aq = ra^r$ $\rightarrow ra^r - aq - q^r = 0 \xrightarrow{G_{r'}} a^r - aq - r q^r \rightarrow (a - rq)(a + q) = 0$ $\frac{a^r}{aq} = \frac{q}{q} \rightarrow a = q = 1 \checkmark$ $a = -\frac{1}{r}q = -\frac{1}{r}$ $a = q \xrightarrow{G_{r'}} a = -rq$ $a = -\frac{q}{r} \xrightarrow{G_{r'}} a = -q$	11
$a_r = \sqrt{a_f} \rightarrow a_a \cdot a_r = a_f^r \rightarrow r \sqrt{a_f} = \sqrt{a_f^r} \rightarrow r \sqrt{a_f} = \sqrt{a_f^r} \rightarrow$ $a_s = rv \rightarrow \sqrt{r^r} = \sqrt{a_f^r} \rightarrow a_e = 4$ $a = \frac{a_r}{a_f} = \frac{q}{\sqrt{q}} = r$ $a_f = a_r \cdot a_s \rightarrow q = a_r \cdot rv \rightarrow a_r = \frac{1}{r} \checkmark$ $\rightarrow \frac{1}{r} - q_1 = \frac{1}{r} - \frac{1}{r} = \frac{1}{r} \checkmark$	12