

- (57) How much ready money should be paid for a pension of £30 to continue for 5 years at $4\frac{1}{2}$ per cent. simple interest? Ans. $v = £133\ 9s.\ 4\frac{1}{2}d.$
- (58) If £133 9s. $4\frac{1}{2}d.$ ready money be paid for an annuity of £30 to continue 5 years, what is the rate per cent. simple interest? Ans. $r = 4\frac{1}{2}$ per cent.
- (59) A person sells 6 years of his pension, which is payable quarterly with simple interest at 5 per cent. per annum, for £263 18s. 10d.; what was the annual value of his pension? $A = £50.$
- (60) What will an annuity of £33 17s. 9d. amount to, in 14 years at 4 per cent. compound interest? Ans. $M = £619\ 17s.\ 4d.$
- (61) What annuity, accumulating at $3\frac{1}{2}$ per cent. compound interest, will amount to £600, in 40 years? Ans. $A = £6\ 13s.\ 11d.$
- (62) In how many years will an annuity of £8 per annum, amount to £187 6s. $3\frac{1}{2}d.$ at 3 per cent. compound interest? Ans. $t = 18$ years.
- (63) What is the present value of an annuity of £154 for 19 years, at 5 per cent. compound interest? Ans. $v = £1861\ 2s.\ 7\frac{1}{4}d.$
- (64) What annuity to continue 12 years at £4 5s. per cent. compound interest may be purchased for £231 5s. $2\frac{1}{2}d.$ ready money? Ans. $A = £25.$
- (65) For how many years may an annuity of £22 be purchased for £308 12s. 10d., allowing compound interest at 4 per cent? Ans. $t = 21$ years.
- (66) Required the present value of a deferred annuity of £80 to be entered upon at the expiration of 12 years, and then to be continued for 7 years, at 4 per cent. compound interest? Ans. $v = £299\ 18s.\ 1d.$
- (67) What is the present value of an estate whose rental is \$1500 allowing 5 per cent. compound interest? Ans. $v = 30000$ dollars, or 20 years' purchase.