

TAKING COEFFICIENTS IN GENERATING FUNCTIONS

FEBRUARY 25, 2010

- (1) coefficient of q^7 in $2q^2/(1 - q^5)/(1 - q^2)$
- (2) coefficient of q^8 in $(1 + q + 2q^2)/(1 - q^2)^4$
- (3) coefficient of q^8 in $(3 + 2q^2)/(1 - 3q + q^2)$
- (4) coefficient of q^7 in $1/(1 + 2q)^3$
- (5) coefficient of q^6 in $(1 + q)/(1 - q - q^2)$
- (6) coefficient of q^7 in $(1 + q^3)/(1 - q)/(1 - q^2)$
- (7) coefficient of q^{10} in $(1 + 3q)/(1 - q - q^2)$
- (8) coefficient of q^6 in $1/((1 - 2q)(1 - q^3))$
- (9) coefficient of q^9 in $(1 + 5q)/(1 + q)^3$
- (10) coefficient of q^7 in $(1 + q)/(1 + q)^3$
- (11) coefficient of q^6 in $(q + q^2)/(1 - q^2)^3$
- (12) coefficient of q^{12} in $(1 - q^4)/(1 + q - q^3)$
- (13) coefficient of q^{10} in $(1 + q + q^2)/(1 - q)^4$
- (14) coefficient of q^4 in $1/(1 - 2q - 4q^2)$
- (15) coefficient of q^9 in $(1 - q)/(1 + 2q)^3$
- (16) coefficient of q^8 in $(1 + q + q^2)/(1 - 3q^2)^5$