## **QUESTION 1.6**

(a) 
$$32 = u_1 + (10 - 1) \times (-6)$$
 (M1)

**Notes:** Award *(M1)* for correct substitution in correct formula. Accept correct alternative methods.

$$u_1 = 86 \tag{C2}$$

(b) 
$$u_{21} = 86 + (21 - 1) \times (-6)$$
 (M1)  $u_{21} = -34$  (A1)(ft)

**Notes:** Award (*M1*) for correct substitution in correct formula. Accept correct alternative methods.

Award (M1) for a list of at least 5 correct terms seen. Follow through from their answer to part (a).

Tonow through from their answer to part (a

## OR

$$u_{21} = 32 + 11 \times (-6)$$
 (M1)  
 $u_{21} = -34$  (A1) (C2)

(c) 
$$S_{30} = \frac{30}{2} (2 \times 86 + (30 - 1) \times (-6))$$
 (M1)

**Notes:** Award (*M1*) for their correct substitution in correct formula. Accept correct alternative methods. For a list award (*M1*) for the correct addition of at least 10 terms.

$$S_{30} = -30$$
 (A1)(ft) (C2)

**Notes:** Follow through from their answer to part (a).

[6 marks]