

Arithmetic Sequences (A)

Find the n th term of the sequence $0, -2, -4, -6, \dots$

$$\begin{array}{ccc} \curvearrowright & \curvearrowright & \curvearrowright \\ -2 & -2 & -2 \end{array}$$

$$-2n + c$$

$$-2(1) + c = 0$$

$$c = 2$$

$$-2n + 2$$

Find the next two terms of the sequence $-2, 1, 4, 7, \dots$

$$\begin{array}{ccc} \curvearrowright & \curvearrowright & \curvearrowright \\ +3 & +3 & +3 \end{array}$$

$$10, 13$$

The n th term of a sequence is $-4n + 16$. Which term equals -52 ?

$$-4n + 16 = -52$$

$$-4n = -68$$

$$4n = 68$$

$$n = 17$$