An arithmetic sequence

creating a formula to find a specific term

Which of the following is the explicit function rule for: –3, 4, 11, 18, ...?

a. $a_n = 8n - 10$
b. $a_n = 7n - 10$
c. $a_n = 8n - 11$
d. $a_n = 7n - 11$

Which of the following is the explicit function rule for: –5, –3, –1, 1, ...?

a. $a_n = 3n - 7$
b. $a_n = 2n - 7$
c. $a_n = 2n - 8$
d. $a_n = 3n - 8$

Which of the following is the explicit function rule for: –2, –9, –16, –23, ...?
What is the n^{th} term when $n = 16$?

a. $a_n = -8n + 4; -124$
b. $a_n = -7n + 4; -123$
c. $a_n = -7n + 5; -107$
d. $a_n = -7n + 4; -108$
e. $a_n = -8n + 4; -108$
f. $a_n = -8n + 5; -107$
g. $a_n = -7n + 5; -124$
h. $a_n = -8n + 5; -123$

Which of the following is the explicit function rule for: –5, –9, –13, –17, ...?
What is the n^{th} term when $n = 28$?

a. $a_n = -5n - 1; -141$
b. $a_n = -4n - 2; -114$
c. $a_n = -4n - 2; -141$
d. $a_n = -5n - 2; -114$
e. $a_n = -5n - 2; -142$
f. $a_n = -4n - 1; -142$
g. $a_n = -5n - 1; -113$
h. $a_n = -4n - 1; -113$

Find the n^{th} for the following sequence when $n = 14$:
–1, –9, –17, –25, ...

Find the n^{th} for the following sequence when $n = 29$:
–3, –9.8, –16.6, –23.4, ...