

AFM

Act. #39 SPECIAL RECURSIVE  
Sequences

Find the first five terms of each sequence.

$$\textcircled{1} a_1 = 13, a_2 = 5, a_{n+2} = a_{n+1} - a_n$$

$$\textcircled{2} a_1 = 4, a_2 = -3, a_{n+2} = n + 3a_{n+1}$$

$$\textcircled{3} a_1 = 3, a_2 = 4, a_n = 2a_{n-2} + 3a_{n-1}$$

$$\textcircled{4} a_1 = 2, a_2 = 6, a_{n+3} = 5a_{n+1} - 6a_{n+2}$$

$$\textcircled{5} a_n = 3 \cdot (-2)^{n-1}$$

$$\textcircled{6} a_1 = -16, a_n = a_{n-1} + 4$$

$$\textcircled{7} t_1 = 3, t_2 = -2, t_n = t_{n-1} + 3t_{n-2}$$

$$\textcircled{8} a_1 = -5, a_2 = \frac{1}{2}, a_{n+4} = 3n + n$$

$$\textcircled{9} b_1 = 2, b_n = (b_{n-1})^2 + 1$$

$$\textcircled{10} W_1 = 3, W_2 = -5, W_{n+1} = W_n - 4^n$$