Solve the recurrence relation

$$a_n = (-5)a_{n-1} + (-4)a_{n-2}$$
 for $n \ge 2$,
 $a_0 = 3, a_1 = 15.$

Write your solution in the form of

$$a_n = c_1 \cdot r_1^n + c_2 \cdot r_2^n.$$

Check code = $(c_1 + c_2 + r_1 + r_2) \mod 10$

Solution.



Indicating your answer by **underlining it** or **circling it**. Compute the **check code** and fill it into the **box on the right**.

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Solve the recurrence relation

$$a_n = (-2)a_{n-1} + (8)a_{n-2}$$
 for $n \ge 2$,
 $a_0 = -17, a_1 = 20.$

Write your solution in the form of

$$a_n = c_1 \cdot r_1^n + c_2 \cdot r_2^n.$$

Check code = $(c_1 + c_2 + r_1 + r_2) \mod 10$

Solution.



Indicating your answer by **underlining it** or **circling it**. Compute the **check code** and fill it into the **box on the right**.

Solve the recurrence relation

 $a_n = (2)a_{n-1} + (15)a_{n-2}$ for $n \ge 2$, $a_0 = 6, a_1 = -42.$

Write your solution in the form of

$$a_n = c_1 \cdot r_1^n + c_2 \cdot r_2^n.$$

Check code = $(c_1 + c_2 + r_1 + r_2) \mod 10$

Solution.



Indicating your answer by **underlining it** or **circling it**. Compute the **check code** and fill it into the **box on the right**.

Solve the recurrence relation

$$a_n = (-1)a_{n-1} + (12)a_{n-2}$$
 for $n \ge 2$,
 $a_0 = -4, a_1 = 9.$

Write your solution in the form of

$$a_n = c_1 \cdot r_1^n + c_2 \cdot r_2^n.$$

Check code = $(c_1 + c_2 + r_1 + r_2) \mod 10$

Solution.



Indicating your answer by **underlining it** or **circling it**. Compute the **check code** and fill it into the **box on the right**.

Solve the recurrence relation

$$a_n = (7)a_{n-1} + (-10)a_{n-2}$$
 for $n \ge 2$,
 $a_0 = 8, a_1 = 10.$

Write your solution in the form of

$$a_n = c_1 \cdot r_1^n + c_2 \cdot r_2^n.$$

Check code = $(c_1 + c_2 + r_1 + r_2) \mod 10$

Solution.



Indicating your answer by **underlining it** or **circling it**. Compute the **check code** and fill it into the **box on the right**.

Quiz 3

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Solve the recurrence relation

$$a_n = (3)a_{n-1} + (4)a_{n-2}$$
 for $n \ge 2$,
 $a_0 = 1, a_1 = 44.$

Write your solution in the form of

$$a_n = c_1 \cdot r_1^n + c_2 \cdot r_2^n.$$

Check code = $(c_1 + c_2 + r_1 + r_2) \mod 10$

Solution.



Indicating your answer by **underlining it** or **circling it**. Compute the check code and fill it into the box on the right.

Solve the recurrence relation

 $a_n = (-2)a_{n-1} + (15)a_{n-2}$ for $n \ge 2$, $a_0 = -5, a_1 = 33.$

Write your solution in the form of

$$a_n = c_1 \cdot r_1^n + c_2 \cdot r_2^n.$$

Check code = $(c_1 + c_2 + r_1 + r_2) \mod 10$

Solution.



Indicating your answer by **underlining it** or **circling it**. Compute the **check code** and fill it into the **box on the right**.

Quiz 3

姓名 Name : ______ 學號 Student ID # : _____ MATH 203: Discrete Mathematics I

Solve the recurrence relation

 $a_n = (0)a_{n-1} + (9)a_{n-2}$ for $n \ge 2$, $a_0 = -1, a_1 = -15.$

Write your solution in the form of

$$a_n = c_1 \cdot r_1^n + c_2 \cdot r_2^n.$$

Check code = $(c_1 + c_2 + r_1 + r_2) \mod 10$

Solution.



Indicating your answer by **underlining it** or **circling it**. Compute the **check code** and fill it into the **box on the right**.

Quiz 3

姓名 Name : ______ 學號 Student ID # : _____ Quiz 3 MATH 203: Discrete Mathematics I

Solve the recurrence relation

$$a_n = (1)a_{n-1} + (2)a_{n-2}$$
 for $n \ge 2$,
 $a_0 = 15, a_1 = 0.$

Write your solution in the form of

$$a_n = c_1 \cdot r_1^n + c_2 \cdot r_2^n.$$

Check code = $(c_1 + c_2 + r_1 + r_2) \mod 10$

Solution.



Indicating your answer by **underlining it** or **circling it**. Compute the check code and fill it into the box on the right.

Solve the recurrence relation

$$a_n = (7)a_{n-1} + (-12)a_{n-2}$$
 for $n \ge 2$,
 $a_0 = 0, a_1 = -9.$

Write your solution in the form of

$$a_n = c_1 \cdot r_1^n + c_2 \cdot r_2^n.$$

Check code = $(c_1 + c_2 + r_1 + r_2) \mod 10$

Solution.



Indicating your answer by **underlining it** or **circling it**. Compute the **check code** and fill it into the **box on the right**.