



Determine which rule best represents the expression the function machine used.

**Answers**

- 1) 

<b>Input (Y)</b>	3	10	6	2	5
<b>Output</b>	13	48	28	8	23

      A.  $Y \times 5 - 5$       B.  $Y \times 5 - 2$   
C.  $Y \times 7 - 2$       D.  $Y + 2$
- 2) 

<b>Input (R)</b>	5	4	3	6	9
<b>Output</b>	15	12	9	18	27

      A.  $R + 3$       B.  $R + 10$   
C.  $R \times 3$       D.  $R \times 10$
- 3) 

<b>Input (S)</b>	14	18	15	11	10
<b>Output</b>	6	10	7	3	2

      A.  $S \times 2$       B.  $S + 2$   
C.  $S - 8$       D.  $S \times 11 - 2$
- 4) 

<b>Input (Q)</b>	9	6	4	8	10
<b>Output</b>	85	58	40	76	94

      A.  $Q \times 9 + 4$       B.  $Q \times 4$   
C.  $Q \times 9 + 5$       D.  $Q + 4$
- 5) 

<b>Input (N)</b>	10	7	3	6	5
<b>Output</b>	103	73	33	63	53

      A.  $N + 3$       B.  $N \times 10 + 3$   
C.  $N \times 10 - 5$       D.  $N \times 10$
- 6) 

<b>Input (F)</b>	9	5	6	2	10
<b>Output</b>	61	33	40	12	68

      A.  $F \times 7 - 2$       B.  $F \times 7$   
C.  $F \times 2$       D.  $F \times 6 - 2$
- 7) 

<b>Input (U)</b>	9	10	16	12	14
<b>Output</b>	3	4	10	6	8

      A.  $U \times 6 - 9$       B.  $U - 6$   
C.  $U \times 11 + 7$       D.  $U \times 6$
- 8) 

<b>Input (T)</b>	10	6	7	9	2
<b>Output</b>	16	12	13	15	8

      A.  $T \times 5 - 5$       B.  $T + 6$   
C.  $T + 5$       D.  $T \times 6 - 8$
- 9) 

<b>Input (J)</b>	7	8	10	3	5
<b>Output</b>	27	32	42	7	17

      A.  $J \times 5 + 10$       B.  $J \times 5 - 8$   
C.  $J \times 8$       D.  $J \times 7 + 8$
- 10) 

<b>Input (G)</b>	7	4	5	6	8
<b>Output</b>	37	22	27	32	42

      A.  $G \times 5 + 3$       B.  $G \times 5 + 2$   
C.  $G \times 5$       D.  $G \times 8 - 2$

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_



Determine which rule best represents the expression the function machine used.

1) 

<b>Input (Y)</b>	3	10	6	2	5
<b>Output</b>	13	48	28	8	23

- A.  $Y \times 5 - 5$       B.  $Y \times 5 - 2$   
 C.  $Y \times 7 - 2$       D.  $Y + 2$

2) 

<b>Input (R)</b>	5	4	3	6	9
<b>Output</b>	15	12	9	18	27

- A.  $R + 3$       B.  $R + 10$   
 C.  $R \times 3$       D.  $R \times 10$

3) 

<b>Input (S)</b>	14	18	15	11	10
<b>Output</b>	6	10	7	3	2

- A.  $S \times 2$       B.  $S + 2$   
 C.  $S - 8$       D.  $S \times 11 - 2$

4) 

<b>Input (Q)</b>	9	6	4	8	10
<b>Output</b>	85	58	40	76	94

- A.  $Q \times 9 + 4$       B.  $Q \times 4$   
 C.  $Q \times 9 + 5$       D.  $Q + 4$

5) 

<b>Input (N)</b>	10	7	3	6	5
<b>Output</b>	103	73	33	63	53

- A.  $N + 3$       B.  $N \times 10 + 3$   
 C.  $N \times 10 - 5$       D.  $N \times 10$

6) 

<b>Input (F)</b>	9	5	6	2	10
<b>Output</b>	61	33	40	12	68

- A.  $F \times 7 - 2$       B.  $F \times 7$   
 C.  $F \times 2$       D.  $F \times 6 - 2$

7) 

<b>Input (U)</b>	9	10	16	12	14
<b>Output</b>	3	4	10	6	8

- A.  $U \times 6 - 9$       B.  $U - 6$   
 C.  $U \times 11 + 7$       D.  $U \times 6$

8) 

<b>Input (T)</b>	10	6	7	9	2
<b>Output</b>	16	12	13	15	8

- A.  $T \times 5 - 5$       B.  $T + 6$   
 C.  $T + 5$       D.  $T \times 6 - 8$

9) 

<b>Input (J)</b>	7	8	10	3	5
<b>Output</b>	27	32	42	7	17

- A.  $J \times 5 + 10$       B.  $J \times 5 - 8$   
 C.  $J \times 8$       D.  $J \times 7 + 8$

10) 

<b>Input (G)</b>	7	4	5	6	8
<b>Output</b>	37	22	27	32	42

- A.  $G \times 5 + 3$       B.  $G \times 5 + 2$   
 C.  $G \times 5$       D.  $G \times 8 - 2$

Answers

1.   **B**    
 2.   **C**    
 3.   **C**    
 4.   **A**    
 5.   **B**    
 6.   **A**    
 7.   **B**    
 8.   **B**    
 9.   **B**    
 10.   **B**