

Function Table - Mixed Functions

A) Complete each function table.

1) $f(x) = 7x + 4^x$

| x | f(x) |
|---------------|------|
| -2 | |
| -1 | |
| 0 | |
| $\frac{1}{2}$ | |
| 2 | |

2) $f(x) = \frac{2x + 5}{2x - 5}$

| x | f(x) |
|---------------|------|
| $\frac{3}{4}$ | |
| 1 | |
| 2 | |

3) $f(x) = 4.9x^2 - 7.7x + 1$

| x | f(x) |
|----|------|
| -6 | |
| -5 | |
| -3 | |
| -2 | |
| 2 | |

B) Complete the function table for $f(x) = x + 1$ and answer the following questions

| | |
|------|--|
| x | |
| f(x) | |

i) What is the value of $f(5)$?

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| | |
|---|-----|
| 5 | 6.5 |
| | |

ii) What is the value of $f(x)$, if x is 1?

C) Complete the function table for $f(x) = |x(x^4 - 6)|$

| f(x) | x(x ⁴ - 6) | 8x + $\frac{3}{2}$ | (x - 0.5)(x - 5) |
|-------|-----------------------|--------------------|------------------|
| f(-2) | | | |
| f(1) | | | |
| f(3) | | | |

Function Table - Mixed Functions

A) Complete each function table.

1) $f(x) = 7x + 4^x$

| x | $f(x)$ |
|---------------|-------------------|
| -2 | $-\frac{223}{16}$ |
| -1 | $-\frac{27}{4}$ |
| 0 | 1 |
| $\frac{1}{2}$ | $\frac{11}{2}$ |
| 2 | 30 |

2) $f(x) = \frac{2x + 5}{2x - 5}$

| x | $f(x)$ |
|---------------|-----------------|
| $\frac{3}{4}$ | $-\frac{13}{7}$ |
| 1 | $-\frac{7}{3}$ |
| 2 | -9 |

3) $f(x) = 4.9x^2 - 7.7x + 1$

| x | $f(x)$ |
|-----|--------|
| -6 | 223.6 |
| -5 | 162 |
| -3 | 68.2 |
| -2 | 36 |
| 2 | 5.2 |

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B) Complete the function table following questions

| | |
|--------|--|
| x | |
| $f(x)$ | |

i) What is the value of $f(1)$?

1

ii) Complete the function table for $f(x) = x^2 + 1$ and answer the

| | |
|-------------|-------------|
| 5 | 6.5 |
| $\sqrt{21}$ | $3\sqrt{3}$ |

iii) What is the value of $f(x)$, if x is 1?

C) Complete the function table

| $f(x)$ | $ x(x^4 - 6) $ | $8x + \frac{3}{2}$ | $(x - 0.5)(x - 5)$ |
|---------|----------------|--------------------|--------------------|
| $f(-2)$ | 20 | $-\frac{29}{2}$ | 17.5 |
| $f(1)$ | 5 | $\frac{19}{2}$ | -2 |
| $f(3)$ | 225 | $\frac{51}{2}$ | -5 |