

## Function Table

MS2

Complete each function table.

1)  $f(x) = \frac{2}{3}x^2 - 4x - \frac{7}{2}$

|        |   |   |   |   |   |
|--------|---|---|---|---|---|
| $x$    | 1 | 2 | 3 | 4 | 5 |
| $f(x)$ |   |   |   |   |   |

2)  $f(x) = -x^2 + 2x - \frac{4}{5}$

|        |    |   |   |   |   |
|--------|----|---|---|---|---|
| $x$    | -1 | 0 | 1 | 2 | 3 |
| $f(x)$ |    |   |   |   |   |

3)  $f(x) = -2x^2 - \frac{1}{2}x$

|        |                |                |
|--------|----------------|----------------|
| $x$    | $-\frac{3}{8}$ | $-\frac{1}{4}$ |
| $f(x)$ |                |                |

$x^2 + \frac{3}{7}x - 2$

|        |                |                |   |               |
|--------|----------------|----------------|---|---------------|
| $x$    | $-\frac{2}{3}$ | $-\frac{1}{3}$ | 0 | $\frac{1}{3}$ |
| $f(x)$ |                |                |   |               |

5)  $f(x) = \frac{3}{2}x^2 + 3x$

|        |    |    |
|--------|----|----|
| $x$    | -3 | -2 |
| $f(x)$ |    |    |

$6x^2 + 36x + 4$

|        |   |               |   |               |
|--------|---|---------------|---|---------------|
| $x$    | 0 | $\frac{1}{2}$ | 1 | $\frac{3}{2}$ |
| $f(x)$ |   |               |   |               |

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7)  $f(x) = -\frac{4}{7}x^2 - \frac{12}{7}x - \frac{9}{4}$

|        |                |                |                |                |               |
|--------|----------------|----------------|----------------|----------------|---------------|
| $x$    | $-\frac{7}{2}$ | $-\frac{5}{2}$ | $-\frac{3}{2}$ | $-\frac{1}{2}$ | $\frac{1}{2}$ |
| $f(x)$ |                |                |                |                |               |

8)  $f(x) = 10x^2 - \frac{5}{2}x + \frac{3}{8}$

|        |                |   |               |               |               |
|--------|----------------|---|---------------|---------------|---------------|
| $x$    | $-\frac{1}{8}$ | 0 | $\frac{1}{8}$ | $\frac{1}{4}$ | $\frac{3}{8}$ |
| $f(x)$ |                |   |               |               |               |

**Answer key****Function Table**

MS2

Complete each function table.

1)  $f(x) = \frac{2}{3}x^2 - 4x - \frac{7}{2}$

|      |                 |                 |                 |                 |                 |
|------|-----------------|-----------------|-----------------|-----------------|-----------------|
| x    | 1               | 2               | 3               | 4               | 5               |
| f(x) | $-\frac{41}{6}$ | $-\frac{53}{6}$ | $-\frac{19}{6}$ | $-\frac{53}{6}$ | $-\frac{41}{6}$ |

2)  $f(x) = -x^2 + 2x - \frac{4}{5}$

|      |                 |                |               |                |                 |
|------|-----------------|----------------|---------------|----------------|-----------------|
| x    | -1              | 0              | 1             | 2              | 3               |
| f(x) | $-\frac{19}{5}$ | $-\frac{4}{5}$ | $\frac{1}{5}$ | $-\frac{4}{5}$ | $-\frac{19}{5}$ |

3)  $f(x) = -2x^2 - \frac{1}{2}x$

|      |                 |                |
|------|-----------------|----------------|
| x    | $-\frac{3}{8}$  | $-\frac{1}{4}$ |
| f(x) | $-\frac{3}{32}$ | 0              |

$x^2 + \frac{3}{7}x - 2$

|                |                  |    |                  |
|----------------|------------------|----|------------------|
| $-\frac{2}{3}$ | $-\frac{1}{3}$   | 0  | $\frac{1}{3}$    |
| -2             | $-\frac{29}{14}$ | -2 | $-\frac{25}{14}$ |

5)  $f(x) = \frac{3}{2}x^2 + 3x$

|      |                |    |
|------|----------------|----|
| x    | -3             | -2 |
| f(x) | $\frac{27}{2}$ | 9  |

$6x^2 + 36x + 4$

|   |               |   |               |
|---|---------------|---|---------------|
| 0 | $\frac{1}{2}$ | 1 | $\frac{3}{2}$ |
| 4 | 13            | 4 | -23           |

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7)  $f(x) = -\frac{4}{7}x^2 - \frac{12}{7}x - \frac{9}{4}$

|      |                 |                  |                  |                  |                 |
|------|-----------------|------------------|------------------|------------------|-----------------|
| x    | $-\frac{7}{2}$  | $-\frac{5}{2}$   | $-\frac{3}{2}$   | $-\frac{1}{2}$   | $\frac{1}{2}$   |
| f(x) | $-\frac{13}{4}$ | $-\frac{43}{28}$ | $-\frac{27}{28}$ | $-\frac{43}{28}$ | $-\frac{13}{4}$ |

8)  $f(x) = 10x^2 - \frac{5}{2}x + \frac{3}{8}$

|      |                 |               |                |               |                 |
|------|-----------------|---------------|----------------|---------------|-----------------|
| x    | $-\frac{1}{8}$  | 0             | $\frac{1}{8}$  | $\frac{1}{4}$ | $\frac{3}{8}$   |
| f(x) | $\frac{27}{32}$ | $\frac{3}{8}$ | $\frac{7}{32}$ | $\frac{3}{8}$ | $\frac{27}{32}$ |