

Name: _____

Score: _____

Function Table

DS1

Complete the function table:

1) $f(x) = x^2 + 2x + 5$

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

2) $f(x) = x^3 - 5x + 3$

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

3) $f(x) = \sqrt{x^2 + 2x + 1}$

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

4) $f(x) = (x - 1)^4$

| | | | |
|--|---|---|---|
| | 2 | 3 | 4 |
| | | | |

5) $f(x) = \sqrt[3]{x} - x$

| | | |
|--------|-----|----|
| x | -27 | -8 |
| $f(x)$ | | |

PREVIEW

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| | | | |
|--|---|---|---|
| | 0 | 1 | 2 |
| | | | |

7) $f(x) = \frac{x+1}{x-1}$

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

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| | | | |
|--|---|---|---|
| | 1 | 2 | 4 |
| | | | |

9) $f(x) = \sqrt{x} - 5$

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

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| | | | |
|--|---|---|---|
| | 2 | 3 | 4 |
| | | | |

11) $f(x) = \sqrt{x}/x$

| | | | | | |
|--------|---|----|----|----|-----|
| x | 4 | 16 | 25 | 64 | 100 |
| $f(x)$ | | | | | |

12) $f(x) = \sqrt[3]{x-1}$

| | | | | | |
|--------|-----|----|---|---|---|
| x | -26 | -7 | 0 | 2 | 9 |
| $f(x)$ | | | | | |

Name: _____

Score: _____

Answer key**Function Table**

DS1

1) $f(x) = x^2 + 2x + 5$

| | | | | | |
|------|----|----|----|---|----|
| x | -5 | -3 | -1 | 1 | 2 |
| f(x) | 20 | 8 | 4 | 8 | 13 |

2) $f(x) = x^3 - 5x + 3$

| | | | | | |
|------|----|----|---|----|----|
| x | -3 | -1 | 0 | 1 | 3 |
| f(x) | -9 | 7 | 3 | -1 | 15 |

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

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

4) $f(x) = (x - 1)^4$

| | | | |
|------|---|----|----|
| x | 2 | 3 | 4 |
| f(x) | 1 | 16 | 81 |

5) $f(x) = \sqrt[3]{x} - x$

| | | |
|------|-----|----|
| x | -27 | -8 |
| f(x) | 24 | 6 |

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| | | | |
|------|---|---|----|
| x | 0 | 1 | 2 |
| f(x) | 3 | 8 | 43 |

7) $f(x) = \frac{x+1}{x-1}$

| | | |
|------|-----|----|
| x | -3 | -1 |
| f(x) | 0.5 | 0 |

| | | | |
|------|---|-----|------|
| x | 1 | 2 | 4 |
| f(x) | 1 | 0.5 | 0.25 |

9) $f(x) = \sqrt{x} - 5$

| | | |
|------|----|----|
| x | 0 | 1 |
| f(x) | -5 | -4 |

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

11) $f(x) = \sqrt{x}/x$

| | | | | | |
|------|-----|------|-----|-------|-----|
| x | 4 | 16 | 25 | 64 | 100 |
| f(x) | 0.5 | 0.25 | 0.2 | 0.125 | 0.1 |

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

| | | | | | |
|------|-----|----|----|---|---|
| x | -26 | -7 | 0 | 2 | 9 |
| f(x) | -3 | -2 | -1 | 1 | 2 |