

Evaluating Quadratic Functions

A) Complete each function table.

1) $f(x) = 14 - 5.9x^2$

| x | $f(x)$ |
|-----|--------|
| -3 | |
| 0 | |
| 1 | |
| 2 | |
| 4 | |

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

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

3) $f(x) = x\left(x - \frac{4}{5}\right)$

| x | $f(x)$ |
|-----|--------|
| -5 | |
| -1 | |
| 0 | |
| 6 | |
| 9 | |

B) Complete the function table using the function rule $f(x) = -x^2 - \frac{4}{5}$ and answer the following questions.

| | | | | | |
|--------|----------------|----------------|----------------|----------------|---|
| x | $-\frac{6}{5}$ | $-\frac{3}{4}$ | $-\frac{1}{3}$ | $-\frac{1}{5}$ | 0 |
| $f(x)$ | | | | | |

i) What is the value of $f\left(\frac{2}{5}\right)$?

ii) What is the value of $f(x)$, if x is 3?

C) Complete the function table.

| | | | |
|----------|-----------|---------------------|--------------|
| $f(x)$ | $-2.5x^2$ | $2x^2 + 1.3x - 1.3$ | $x^2 - 4.1x$ |
| $f(1)$ | | | |
| $f(3.6)$ | | | |
| $f(8.6)$ | | | |