

## Evaluating Quadratic Functions

A) Evaluate each function at the specified value. Round your answer to the nearest tenth.

1)  $f(x) = 7x(x + 3)$  ;  $x = \frac{3}{7}$

2)  $f(x) = 3.2x + x^2 + 1.4$  ;  $x = -2$

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\_\_\_\_\_

B) Evaluate each function. Round your answer to the nearest tenth.

1)  $f(x) = \frac{1}{2}x^2 + 5x$

\_\_\_\_\_ ; find  $f(8.1)$

\_\_\_\_\_

\_\_\_\_\_

C) If  $f(x) = 10x^2 - 7x + 3$

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\_\_\_\_\_ the nearest tenth.

1)  $f\left(-\frac{2}{3}\right) =$  \_\_\_\_\_

\_\_\_\_\_

3)  $f(8.3) =$  \_\_\_\_\_

\_\_\_\_\_

D) If  $f(x) = (4x + 1)(3x -$

\_\_\_\_\_ to the nearest tenth.

1)  $\frac{f(6)}{5f(2)}$

\_\_\_\_\_ )

\_\_\_\_\_

\_\_\_\_\_

E) What is the value of  $f(-3.2)$ , if  $f(x) = 6x(5x + 1)$ ?

i) -326.4

ii) 326.4

iii) 288

iv) -288

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