



## Topic 6: Evaluating Functions

**Questions 1 – 2** Determine the value of  $y$  for the given values of  $x$ . *Note: Express each answer as a single integer.*

1.  $y = -6x + 10$ ;  $x = -8, -3, 2, 5$

2.  $y = -5 + 5(x + 3)$ ;  $x = -9, -7, 2, 10$

**Questions 3 – 10** Determine the value of  $y$  for the given values of  $x$ . *Note: Express each answer as a simplified fraction.*

3.  $y = \frac{3-x}{-2}$ ;  $x = -11, -2, 1, 9$

4.  $y = \frac{8}{11}x + 6$ ;  $x = -9, -5, 2, 4$

5.  $y = 3^x$ ;  $x = -1, 0, 1, 3$

6.  $y = -2^x$ ;  $x = -5, 0, 1, 3$

7.  $y = 4^{-x}$ ;  $x = -2, 0, 1, 2$

8.  $y = 3^{1-x}$ ;  $x = 5, 3, 2, 1$

9.  $y = \left(\frac{1}{5}\right)^x$ ;  $x = -2, 0, 1, 3$

10.  $y = \left(\frac{1}{2}\right)^{-x}$ ;  $x = -5, 0, 1, 5$