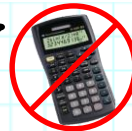


5A.13B Learning Opportunity

Defined Operations



Name: _____

Define operation @ by $@x = x^2 + 3$. For example, $@4 = 4^2 + 3 = 16 + 3 = 19$. Find:

1) @7

2) @(-9)

3) @(0.5)

Define operation [] by $[b] = b^2 - 1$. For example, $[3]=8$. Find:

4) [4]

5) [-6]

6) [2] + [5]

Define operation ~ ~ by $\sim a \sim = 5a + 2$. For example, $\sim 4 \sim = 22$. Find:

7) $\sim 2 \sim$

8) $\sim(-5) \sim$

9) $\sim 1.2 \sim$

10) $\sim(-3.1) \sim$

Define operation \S by $\S y \S = 2y^2 - 2$. For example, $\S 3 \S = 16$. Find:

11) $\S(0.5)\S$

12) $\S(-5)\S$

13) $\S 4 \S$

14) $\S 11 \S$

Define operation \Y by $\Y x = 2x$ if x is odd and $\Y x = 3x$ if x is even. For example, $\Y 4 = 12$ and $\Y 3 = 6$. Find:

15) $\Y 7 - \Y 10$

16) $\Y 8 \div \Y 5$

17) $(\Y 11)(\Y 2)$

18) $\Y 3 + \Y 12$