

FINDING PATTERNS

Use the pattern to complete each problem.

1) $\boxtimes(8) = 2 \cdot (8) = 16$

$$\boxtimes(-5) = 2 \cdot (-5) = -10$$

$$\boxtimes\left(\frac{1}{2}\right) = 2 \cdot \left(\frac{1}{2}\right) = 1$$

$$\boxtimes(16) =$$

$$\boxtimes(10) =$$

$$\boxtimes(x) =$$

2) $\boxed{5} = (5)^2 = 25$

$$\boxed{8} = (8)^2 = 64$$

$$\boxed{-3} = (-3)^2 = 9$$

$$\boxed{-7} =$$

$$\boxed{-4} =$$

$$\boxed{x} =$$

3) $\therefore(x) = 3 \cdot (x) + 5 = 3x + 5$

$$\therefore(2) = 3 \cdot (2) + 5 = 6 + 5 = 11$$

$$\therefore\left(\frac{2}{3}\right) = 3 \cdot \left(\frac{2}{3}\right) + 5 = 2 + 5 = 7$$

$$\therefore(-9) =$$

$$\therefore(-4) =$$

$$\therefore(0) =$$

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

$$f(-4) = \frac{(-4)}{2} - 3 = -2 - 3 = -5$$

$$f(10) = \frac{(10)}{2} - 3 = 5 - 3 = 2$$

$$f(-12) =$$

$$f(6) =$$

$$f(-8) =$$

5) $g(x) = x^2 + x$

$$g(5) = (5)^2 + (5) = 25 + 5 = 30$$

$$g(-3) =$$

$$g(8) =$$

$$g(2) =$$

$$g(-9) =$$

Summary

How did you know what to do?

What patterns did you notice?