Name_____

luating Functions Worksheet

Date_____ Period____

luate each function.

1) $k(x) = -x + 1$; Find $k(-10)$

$k(-10) = -10 + 1$

$k(-10) = -9$

2) $p(x) = 3x$; Find $p(-6)$

$p(-6) = 3(-6)$

$p(-6) = -18$

3) $g(n) = n^2 + 3$; Find $g(8)$ (-10, -9)

$g(8) = 8^2 + 3$

$g(8) = 64 + 3$

$g(8) = 67$ (8, 67)

4) $g(x) = x^3 + 5x$; Find $g(5)$

$g(5) = 5^3 + 5(5)$

$g(5) = 125 + 25$

$g(5) = 150$

5) $h(n) = n^3 + 3n^2$; Find $h(-5)$

$h(-5) = -5^3 + 3(-5)^2$

$h(-5) = -125 + 3 \cdot 25$

$= -122 - 25 = -147$

6) $w(a) = -a^2 + 5a$; Find $w(7)$

$w(7) = -7^2 + 5(7)$

$w(7) = -49 + 28$

$w(7) = -21$

7) $p(a) = a^3 - 4a$; Find $p(-6)$

$p(-6) = -6^3 - 4(-6)$

$p(-6) = -216 + 24$

$p(-6) = -192$

8) $h(n) = \frac{4}{3}n + \frac{8}{5}$; Find $h(-1)$

$h(-1) = \frac{4}{3} \cdot -1 + \frac{8}{5}$

$h(-1) = -\frac{4}{3} + \frac{8}{5}$

$h(-1) = \frac{12}{15}$

9) $f(x) = -1 + \frac{1}{4}x$; Find $f\left(\frac{3}{4}\right)$

$f\left(\frac{3}{4}\right) = -1 + \frac{1}{4} \cdot \left(\frac{3}{4}\right)$

$f\left(\frac{3}{4}\right) = \frac{-1}{16} + \frac{3}{16} = \frac{3}{16}$

10) $h(n) = n^3 + 6n$; Find $h(4)$

$h(4) = 4^3 + 6(4)$

$h(4) = 64 + 24$

$h(4) = 88$

11) $h(x) = -x^2 - 3$; Find $h(-1)$

$h(-1) = -1^2 - 3$

$h(-1) = -1 - 3$

$h(-1) = -4$

12) $h(x) = -x^2 - x$; Find $h(10)$

$h(10) = -10^2 - 10$

$h(10) = -100 - 10$

$h(10) = -110$

13) $h(t) = t^2 - 4.4$; Find $h(-7.8)$

$h(-7.8) = (-7.8)^2 - 4.4$

$= 60.84 - 4.4$

$= 56.24$

14) $g(t) = -2.3t^2 + 3.5t$; Find $g(8.6)$

$g(8.6) = -2.3 \cdot 8.6^2 + 3.5 \cdot 8.6$

$g(8.6) = -169.78 + 30.1$

$g(8.6) = -139.68$

15) $h(a) = -2 - \frac{1}{4}a$; Find $h\left(-\frac{4}{5}\right)$

$h\left(-\frac{4}{5}\right) = -2 - \frac{1}{4} \cdot -\frac{4}{5}$

$h\left(-\frac{4}{5}\right) = -\frac{2}{10} + \frac{4}{20}$

$h\left(-\frac{4}{5}\right) = \frac{2}{40}$

16) $g(x) = 2x^2 + \frac{3}{2}x$; Find $g\left(\frac{1}{4}\right)$

$g\left(\frac{1}{4}\right) = 2\left(\frac{1}{4}\right)^2 + \frac{3}{2}\left(\frac{1}{4}\right)$

$g\left(\frac{1}{4}\right) = \frac{2}{8} + \frac{3}{8}$

$g\left(\frac{1}{4}\right) = \frac{5}{8}$