Alg Name_____

11-1 Graphing Quadratic Equations - x & y-intercepts (ver3)_hw

Period____

Find the x & y-intercepts of the graph of each function.

1) $y = x^2 - 5x + 4$

2) $f(x) = x^2 + 2x - 8$

3) $g(x) = x^2 + 4x$

4) $y = -x^2 - 5x - 6$

5) $h(x) = -x^2 + 9x - 20$

6) $y = x^2 - 16$ (difference of 2 squares)

16. $f(x) = x^2 - 3x - 10$

17. $y = x^2 + 2x$

18. $g(x) = -x^2 + 10x - 21$

19. $y = x^2 - 8x + 16$

20. $y = 2x^2 - 9x + 10$

21. $h(x) = -x^2 - 11x - 18$

Answers to 11-1 Graphing Quadratic Equations - x & y-intercepts (ver3)_hw

1) y-intercept = $(0, 4)$
x-intercepts = $(1, 0)$ & $(4, 0)$

2) y-intercept = $(0, -8)$
x-intercepts = $(-4, 0)$ & $(2, 0)$

3) y-intercept = $(0, 0)$
x-intercepts = $(-4, 0)$ & $(0, 0)$

4) y-intercept = $(0, -6)$
x-intercepts = $(-3, 0)$ & $(-2, 0)$

5) y-intercept = $(0, -20)$
x-intercepts = $(5, 0)$ & $(4, 0)$

6) y-intercept = $(0, -16)$
x-intercepts = $(-4, 0)$ & $(4, 0)$

16) y-intercept = $(0, -10)$
x-intercepts = $(-2, 0)$ & $(5, 0)$

17) y-intercept = $(0, 0)$
x-intercepts = $(-2, 0)$ & $(0, 0)$

18) y-intercept = $(0, -21)$
x-intercepts = $(3, 0)$ & $(7, 0)$

19) y-intercept = $(0, 16)$
x-intercepts = $(4, 0)$

20) y-intercept = $(0, 10)$
x-intercepts = $(2, 0)$ & $\left(\frac{5}{2}, 0\right)$

21) y-intercept = $(0, -18)$
x-intercepts = $(-9, 0)$ & $(-2, 0)$