Quadratics about Worksheet الملف

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Name: _____

1. Solve the equation of $q^2 + 12q + 32 = 0$!

   q= _____ or q = _____

2. Solve the equation of $4^{(x^2+3x-10)} = 1$!

   x = _____ or x = _____

3. If we express the $2x^2 + 16x + 5 = 0$ to $a(x + b)^2 + c$,

   So, a = _____ b = _____ c = _____

4. Solve the simultaneous equations of $x + y = 6$ and $x^2 + 2y = 20$!

   (_____, _____) and (_____, _____)

5. The sum of two numbers is 26. The product of the two number is 153. What are the two numbers?

   _____ and _____

6. Find the value of x that satisfy the equations $3x^4 + x^2 - 4 = 0$!

   x = _____ or x = _____

7. Solve $\sqrt{x}(\sqrt{x} + 1) = 6$!

   x = _____

8. From the function of $y = x^2 + 14x - 15$, we can conclude that

a. The x-intersect are _____ and _____.

b. This graph will have an y intersection at (_____ , _____).

c. The graph has _____ point.

d. The _____ point is (_____ , _____).

9. From the function of $y = 12 + x - x^2$, we can conclude that:

a. The x-intersect are _____ and _____.

b. This graph will have an y intersection at (_____ , _____).

c. The graph has _____ point.

d. The _____ point is (_____ , _____).

10. Solve $x^2 + 6x - 7 > 0$!

x =

11. How many roots that these equations have?

a. $x^2 - 12x + 36 = 0$

b. $2x^2 - 7x + 8 = 0$

12. Find the value of k for $x^2 + kx + 4 = 0$ which has two equal roots!

k = _____ and _____

13. Where does the line $f(x) = x - 1$ cross the parabola $g(x) = (x + 2)^2 - 9$!

(____ , ____) and (____ , ____)

14. Find the value of k for which the line $y = kx + 1$ is a tangent to the curve $y = x^2 - 7x + 2$!

k = ____ and ____