

Assignment

Date _____ Period _____

Find the discriminant of each quadratic equation then state the number and type of solutions.

1) $9n^2 + 3n - 5 = -3$

2) $-2p^2 + 5p + 9 = 9$

3) $3x^2 - 7x + 13 = 9$

4) $-x^2 + x - 1 = -2x - 11x^2$

5) $14a^2 + 15 = 12 - 11a$

6) $3x^2 = -3 - 6x$

Solve each equation for the indicated variable.

7) $z = -3a + 1$, for a

8) $z = -2a$, for a

9) $u = -\frac{2a}{3}$, for a

10) $g = b + a + c$, for a

11) $\frac{k}{a} = w - v$, for a

12) $xc = r + d$, for x

13) $u = ka + ba$, for a

14) $u = ka + ba$, for a

15) $u = ka + ba$, for a

Answers to Assignment (ID: 1)

1) 81; two real solutions

3) 1; two real solutions

5) -47; two imaginary solutions

$$7) a = \frac{-z + 1}{3}$$

$$9) a = -\frac{3u}{2}$$

$$11) a = -\frac{k}{-w + v}$$

$$13) a = -\frac{u}{-k - b}$$

$$15) a = -\frac{u}{-k - b}$$