

Nature of the Roots

Use the discriminant to find the nature of the roots.

1) $-1 = 4n(n + 1)$

2) $p^2 + 3(p - 6) = -7$

3) $(y - 3)^2 = 10$

4) $6x^2 + 8x = 5(x - 1)$

5) $10 + c = -5c^2 + 8$

6) $(6 + k)^2 = 0$

7) $9 - 2q = -q^2$

8) $-5s = -2s^2 + 1$