



Discriminants SOLUTIONS



1.
 - i. Real distinct roots
 - ii. Equal roots
 - iii. Imaginary roots
 - iv. Real distinct roots
 - v. Equal roots
 - vi. Imaginary roots
 - vii. Real roots
 - viii. Equal roots
 - ix. Real roots
2. $k = 9$
3. $k = 4, k = -4$
4. $k = 0, k = \frac{16}{9}$
5. $k \leq -1 \quad k \geq 3$
6. $-\frac{1}{3} \leq p \leq 1$
7. $-3 < p < 1$

