① CMEP - Discriminating

If $a < 0$, then the equation has no real roots.

② CMEP - Discriminating

If $b^2 - 4ac = 0$, then the equation has one repeated real root.

③ CMEP - Discriminating

If the equation has no real roots, then the equation $ax^2 + bx - c = 0$ has two distinct real roots.

④ CMEP - Discriminating

If $\frac{b^2}{a} < 4c$, then the equation has two distinct real roots.

⑤ CMEP - Discriminating

If $b = 0$, then the equation has one repeated real root.

⑥ CMEP - Discriminating

The equation has three real roots.

⑦

CMEP - Discriminating

If $c = 0$, then the equation has no real roots.

⑧

CMEP - Discriminating

The equation has the same number of real roots as
$ax^2 - bx + c = 0$.

⑨

CMEP - Discriminating

If the equation has two distinct real roots, then $ac < \frac{b^2}{4}$.

⑩

CMEP - Discriminating

If $c > 0$, then the equation has two distinct real roots.

⑪

CMEP - Discriminating

The equation has the same number of real roots as the
equation $cx^2 + bx + a = 0$.

⑫

CMEP - Discriminating

If the equation has no real roots, then the equation
$-ax^2 - bx - c = 0$ has two distinct real roots.