

Answer on Question #59724 - Math - Algebra

Question

$$7x^2 - 4x + 8 = 0.$$

Find the discriminant.

Solution

For a quadratic equation of the form $ax^2 + bx + c = 0$ with real coefficients such that $a \neq 0$, the expression $D = b^2 - 4ac$ is called the discriminant.

In the given problem we have $a = 7, b = -4, c = 8$.

So

$$D = b^2 - 4ac = (-4)^2 - 4 * 7 * 8 = 16 - 224 = -208.$$

Answer: -208 .