

$$b^2 - 4(ac)$$

Understanding the Discriminant

Find the value of the discriminant of each quadratic equation.

1) $6p^2 - 2p - 3 = 0$

$$4 - 4(-18)$$

$$4 + 72 = \boxed{76}$$

2) $-2x^2 - x - 1 = 0$

$$1 - 4(2)$$

$$1 - 8 = \boxed{-7}$$

3) $-4m^2 - 4m + 5 = 0$

$$16 - 4(-20)$$

$$16 + 80 = \boxed{96}$$

4) $5b^2 + b - 2 = 0$

$$1 - 4(-10)$$

$$1 + 40 = \boxed{41}$$

5) $r^2 + 5r + 2 = 0$

$$25 - 4(2)$$

$$25 - 8 = \boxed{17}$$

6) $2p^2 + 5p - 4 = 0$

$$25 - 4(-8)$$

$$25 + 32 = \boxed{57}$$

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

7) $9n^2 - 3n - 8 = -10$

$$9n^2 - 3n + 12 = 0$$

$$b^2 - 4ac$$

$$9 - 4(12)$$

$$9 - 48 = -39$$

$$-39 < 0$$

$$9n^2 - 3n + 12 = 0$$

$$b^2 - 4ac$$

$$9 - 4(12)$$

$$9 - 48 = -39$$

$$-39 < 0$$

$$9n^2 - 3n + 12 = 0$$

$$b^2 - 4ac$$

8) $-2x^2 - 8x - 14 = -6$

$$-2x^2 - 8x - 8 = 0$$

$$b^2 - 4ac$$

$$64 - 4(8)$$

$$64 - 32 = 32$$

$$32 > 0$$

$$-2x^2 - 8x - 8 = 0$$

$$b^2 - 4ac$$

$$64 - 4(8)$$

$$64 - 32 = 32$$

$$32 > 0$$

$$-2x^2 - 8x - 8 = 0$$

$$b^2 - 4ac$$

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