

Warm - Up
Dec. 8th

Decide whether the supplied value **is** or **is not** a solution

$$5x^2 = 34 + 7x; \{-2\}$$

2.6.2

Evaluating a Discriminant

P. 66

The solution(s) to $ax^2 + bx + c = 0$

Can be found using the quadratic formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad \leftarrow \text{The discriminant}$$

Find the value of the discriminant $b^2 - 4ac$ when

$$a = -1, b = -4, c = 6$$

substitution

$$(-4)^2 + 4(-1)(6)$$

b a c

$$16 + 24$$

$$40$$

Find the value of the discriminant $b^2 - 4ac$ when

$$a = -4, b = 8, c = -4$$

$$(8)^2 + -4(-4)(-4)$$

Q3 224

$$64 + -64$$

$$0$$

Find the value of the discriminant $b^2 - 4ac$ when

$$a = 3, b = -7, c = -2$$

$$-7^2$$

$$(-7)^2 - 4(3)(-2)$$

$$49 + 4(3)(-2)$$

$$49 + 24$$

$$73$$

Homework (due next Tue, Dec. 12th)
p.66 (9 - 14)

