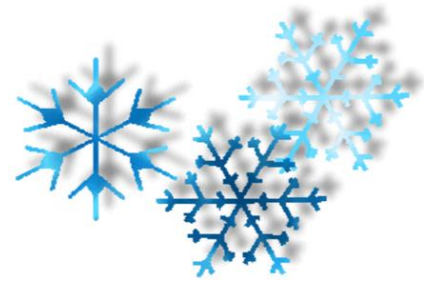


Name:

Unit 8 Day 26

Quadratic Formula Study Guide



1) $r^2 + 4r + 3 = 0$

$x = -1 \quad x = -3$

2) $2x^2 + x + 3 = 0$

NO SOLUTION

3) $2v^2 + 5v - 25 = 0$

$x = 2.5 \quad x = -5$

4) $2x^2 + 5x - 12 = 0$

$x = 1.5 \quad x = -4$

5) $2n^2 - 2n - 4 = 0$

$x = 2 \quad x = -1$

6) $b^2 + b - 2 = 0$

$x = 1 \quad x = -2$

7) $4n^2 + 5n - 114 = 0$

$x = 4.75 \quad x = -6$

8) $6p^2 - 7p - 3 = 0$

$x = 1.5 \quad x = -0.3$

① $r^2 + 4r + 3 = 0$

$r = \frac{-4 \pm \sqrt{(4)^2 + -4(1)(3)}}{2}$

$r = \frac{-4 \pm \sqrt{16 + -12}}{2}$

$r = \frac{-4 \pm \sqrt{4}}{2} \quad r = \frac{-4 \pm 2}{2}$

$r = \frac{-4 + 2}{2} \quad r = \frac{-4 - 2}{2}$

$r = -1 \quad r = -3$

② $2x^2 + x + 3 = 0$

$x = \frac{-1 \pm \sqrt{(1)^2 + -4(2)(3)}}{4}$

$x = \frac{-1 \pm \sqrt{1 + -24}}{4}$

$x = \frac{-1 \pm \sqrt{-23}}{4}$

NO SOLUTION