

Quadratic Formula Practice

Name: Key

1. $k^2 + 5k - 6 = 0$

$x = 1$
 $x = -6$

6. $2a^2 - a - 13 = 2$

$x = 3$
 $x = -5/2$

2. $v^2 + 2v - 8 = 0$

$x = 2$
 $x = -4$

7. $8a^2 + 6a = -5$

$x = \frac{-3 + i\sqrt{31}}{8}$
 $x = \frac{-3 - i\sqrt{31}}{8}$

3. $2n^2 - n - 4 = 2$

$x = 2$
 $x = -3/2$

8. $9x^2 - 11 = 6x$

$x = \frac{1 + 2\sqrt{3}}{3}$
 $x = \frac{1 - 2\sqrt{3}}{3}$

4. $8n^2 - 4n = 18$

$x = \frac{1 + \sqrt{37}}{4}$, $x = \frac{1 - \sqrt{37}}{4}$

9. $10x^2 + 9 = x$

$x = \frac{1 + i\sqrt{359}}{20}$
 $x = \frac{1 - i\sqrt{359}}{20}$

5. $n^2 = 9n - 20$

$x = 5$
 $x = 4$

10. $x^2 = -3x + 40$

$x = 5$
 $x = -8$