

Answer Key

Testname: UNTITLED1

1) $x^2 + 16x + 64 = (x + 8)^2$

2) $x^2 - 6x + 9 = (x - 3)^2$

3) $\frac{25}{4}$

4) $\frac{49}{4}$

5) $x^2 + \frac{1}{5}x + \frac{1}{100} = \left(x + \frac{1}{10}\right)^2$

6) $\frac{1}{169}$

7) $-5 - \sqrt{14}, -5 + \sqrt{14}$

8) $-7 - \sqrt{11}, -7 + \sqrt{11}$

9) $\frac{-6 \pm \sqrt{30}}{3}$

10) $\frac{5 - i\sqrt{39}}{32}, \frac{5 + i\sqrt{39}}{32}$

11) $\frac{3 - i\sqrt{55}}{32}, \frac{3 + i\sqrt{55}}{32}$

12) $\frac{3 - i\sqrt{7}}{8}, \frac{3 + i\sqrt{7}}{8}$

13) no real-number solutions