11.3 PRACTICE SOLUTIONS

Solve the equation.

1.
$$3x^2 - 3 = 0$$

$$\frac{3x^{2}=3}{3}$$

$$\sqrt{x^{2}=1}$$

$$2. \ 4x^2 - 400 = 0$$

$$4400$$

$$4400$$

$$4400$$

$$4400$$

$$4400$$

$$4400$$

$$4400$$

3.
$$\frac{15d^2 = 0}{15}$$
 $\frac{15}{15} = \frac{0}{15}$
 $\frac{15}{15} = \frac{0}{15}$

$$\frac{x = 10^{7} - 1}{x = 11}$$

4.
$$4g^{2} + 10 = 11$$

$$\frac{4g^{2} - 1}{4g^{2} - 1}$$

$$\frac{4g^{$$

5.
$$9q^{2} - 35 = 14$$

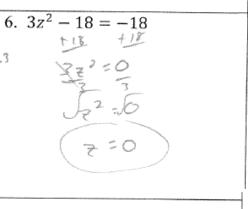
$$+35 \quad 135 \quad 0k$$

$$9q^{2} = 49 \quad q = 3.3 \text{ or}$$

$$q^{2} = \frac{49}{9} \quad q^{2} = 3.3 \text{ or}$$

$$q^{2} = \frac{7}{9} \text{ or} -\frac{7}{3}$$

$$+\frac{7}{3} \quad +\frac{7}{3}$$



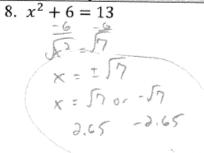
Multiple Choice

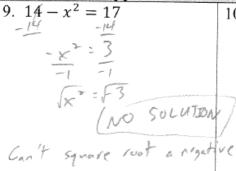
7. Which of the following is a solution of the equation $61 - 3n^2 = -14$?

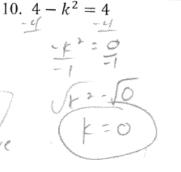
A. 5

B. 10
$$\frac{61-3n^2=-14}{-3n^2=-25}$$
 C. 25

Solve the equation. Give the exact answer and approximate rounded to the nearest hundredth.







11.
$$53 = 8 + 9m^2$$

$$\frac{45}{9} = \frac{9m^2}{9}$$

$$\frac{1}{5} = \frac{9m^2}{9}$$

$$\frac{1}{5} = \frac{5m^2}{9}$$

12.
$$\sqrt{c^2} = 100$$
 $\sqrt{c^2} = \sqrt{\frac{100}{5}}$
 $\sqrt{c^2} = \sqrt{\frac{100}{5}}$

