

$$\frac{2x^2}{2} = \frac{8}{2}$$

$$\sqrt{x^2} = \sqrt{4} \quad x = 2$$

$$|x| = 2 \quad x = -2$$

$$2x^2 - 8 = 0$$

$$2(x^2 - 4) = 0$$

$$2(x+2)(x-2) = 0$$

$$x = 2 \text{ or } -2$$

$$m^2 - 18 = -18$$

$$+18 \quad +18$$

$$\sqrt{m^2} = \sqrt{0}$$

$$|m| = 0$$

$$m = 0$$

$$b^2 + 12 = 5$$

-12      -12

$$b^2 = -7$$

N.S.

$$\underline{\underline{b^2 + 7 = 0}}$$

$$\frac{4z^2}{4} = \frac{9}{4}$$

$$z = \pm \frac{3}{2}$$

$$\sqrt{z^2} = \sqrt{\frac{9}{4}}$$

$$|z| = \frac{3}{2}$$

$$3x^2 - 11 = 7$$

$$\frac{3x^2}{3} = \frac{18}{3}$$

$$x^2 = 6$$

$$\sqrt{x^2} = \sqrt{6}$$

$$|x| = \sqrt{6}$$

$$x = \sqrt{6} \text{ or } x = -\sqrt{6}$$

$$x = \pm\sqrt{6}$$

$$5x^2 + 12 = -8$$

$$-12 \quad -12$$

$$5x^2 = -20$$

N S

$$25x^2 = 16$$

$$25x^2 - 16 = 0$$

$$(5x - 4)(5x + 4) = 0$$

$$5x - 4 = 0$$

$$5x = 4$$

$$x = \frac{4}{5}$$

$$5x + 4 = 0$$

$$5x = -4$$

$$x = -\frac{4}{5}$$

$$\frac{25x^2}{25} = \frac{16}{25}$$

$$\sqrt{x^2} = \sqrt{\frac{16}{25}}$$

$$|x| = \frac{4}{5}$$

$$x = \pm \frac{4}{5}$$

$$3k^2 - 1 = 0$$

$$|k| = \sqrt{\frac{1}{3}}$$

$$k = \pm \sqrt{\frac{1}{3}}$$

$$\pm \frac{\sqrt{1}}{\sqrt{3}} = \pm \frac{1}{\sqrt{3}}$$

$$\pm \frac{1}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}}$$

$$= \frac{\pm \sqrt{3}}{3}$$

$$\frac{6(x-4)^2}{6} = \frac{42}{6}$$

$$\sqrt{(x-4)^2} = \sqrt{7}$$

$$|x-4| = \sqrt{7}$$

$$\begin{array}{r} x-4 = \sqrt{7} \\ +4 \quad +4 \end{array}$$

$$x = 4 + \sqrt{7}$$

$$\begin{array}{r} x-4 = -\sqrt{7} \\ +4 \quad +4 \end{array}$$

$$x = 4 - \sqrt{7}$$

$$\frac{6x^2}{6} = \frac{42}{6}$$

$$\sqrt{x^2} = \sqrt{7}$$

$$|x| = \sqrt{7}$$

$$x = \sqrt{7}$$

$$x = -\sqrt{7}$$

$$\frac{2(x-2)^2}{2} = \frac{18}{2}$$

$$x=5$$

$$2(5-2)^2$$

$$2(3)^2$$

$$2 \cdot 9 = 18 \checkmark$$

$$\sqrt{(4-2)^2} = \sqrt{9}$$

$$x=-1$$

$$2(-1-2)^2$$

$$2(-3)^2$$

$$2(9)$$

$$18 \checkmark$$

$$|x-2| = 3$$

$$x-2 = 3$$

$$+2 \quad +2$$

$$x = 5$$

$$x-2 = -3$$

$$+2 \quad +2$$

$$x = -1$$