

Square Root Method

Isolate the Square

$$(2x-3)^2 - 48 = 0$$

$+48 \quad +48$

$$\sqrt{(2x-3)^2} = \pm \sqrt{48}$$

$$2x-3 = \pm \sqrt{48}$$

$$x = \boxed{\frac{3 \pm 4\sqrt{3}}{2}}$$