

1.4

①④

$$4w^2 = 4w + 3$$

$$4w^2 - 4w - 3 = 0$$

$$(2w - 3)(2w + 1) = 0$$

$$2w - 3 = 0 \quad \text{or} \quad 2w + 1 = 0$$

$$w = \frac{3}{2}$$

$$w = -\frac{1}{2}$$

②④

$$x^2 - 18x = 19$$

$$\left(\frac{18}{2}\right)^2 = 81$$

$$x^2 - 18x + 81 = 19 + 81$$

$$(x - 9)^2 = 100$$

$$x - 9 = \pm \sqrt{100}$$

$$x - 9 = \pm 10$$

$$x = 9 \pm 10$$

$$x = 9 + 10$$

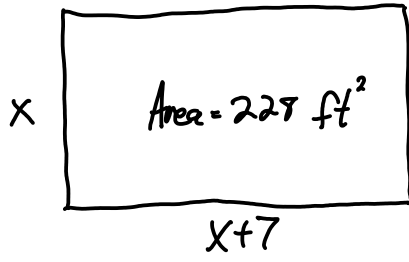
$$x = 19$$

or

$$x = 9 - 10$$

$$x = -1$$

70



$$x(x+7) = 228$$

$$x^2 + 7x = 228$$

$$x^2 + 7x - 228 = 0$$

$$(x+19)(x-12) = 0$$

$$\cancel{x = -19} \text{ or } x = 12$$

form is 12 x 19 ft