29.



sum of interior angles = C1 * C2 * C3 * C4 * C5 * C6 = 180' + 180' = 360'

30.
$$S = 180(n - 2)$$

(a) $N = \frac{S}{180} + 2$
(b) $N = \frac{3600}{180} + 2$

31. A = area of left rectangle + area of right rectangle A = ab + ac A = area of entire rectangle A = a(b + c) which illustrates the distributive property.

 $A = ab + ab + a^2 + b^2$

 $A = a^{\pm} + 2ab + b^{\pm}$ which illustrates that the square

of the sum is the square of the first term plus twice the product of the two terms plus the square of the

second term.

 The diagonal always divides the thombus into two congruent triangles. All outer sides are always oqual.

34.
$$\sqrt{16^2 + 12^2} = \sqrt{400} = 20$$

35. (a) For the courtyard: $x = \frac{12}{4} = \frac{320}{4} = 80$. For the

36.



 $p = 2I * 2\{I - 18\} = 180$ from which I = 54 in. w = I - 18 = 54 - 18w = 36 in.

37.



$$w + 2.5 = 4w - 4.7$$

 $w = 2.4 \text{ ft}$
 $4w = 9.6 \text{ ft}$

38.
$$A = 1.80 \times 3.50 = 6.30 \text{ fs}^2$$

39. A = 2 (area of trapezoid - area of window)= $2 \left\{ \frac{1}{2} (28 + 16) \cdot 8 - 12 (3.5) \right\}$

= 268 ft²

1 gal = x ht of trapezoid

320 ft² = 268 ft²

$$x = 0.84$$
 gal = $\sqrt{10^{2} - \left(\frac{28 - 16}{2}\right)}$

$$I = \sqrt{1.30^3 - 70^3}$$

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