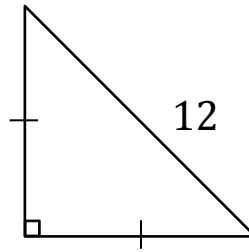$$a^2 + b^2 = c^2$$
$a = b$, so: $a^2 + a^2 = c^2$
$$a^2 + a^2 = 12^2$$
$$2(a^2) = 144$$
÷ by 2 $a^2 = 72$
$$a = \sqrt{72}$$
$$a = 8.5$$

(tick marks mean side lengths are congruent, or equal)

$$a^2 + b^2 = c^2$$
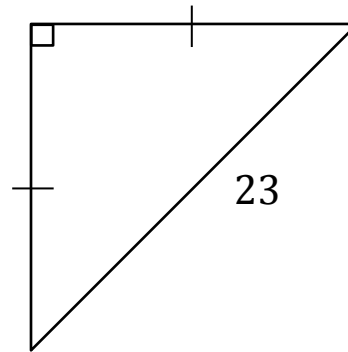$a = b$, so: $a^2 + \underline{\quad} = \underline{\quad}$
$$\underline{\quad} + a^2 = 23^2$$
$$\underline{\quad}(a^2) = 529$$
$$\underline{\quad} = 264.5$$
$$a = \sqrt{\quad}$$
$$a = 16.3$$

$$a^2 + b^2 = \underline{\quad}$$
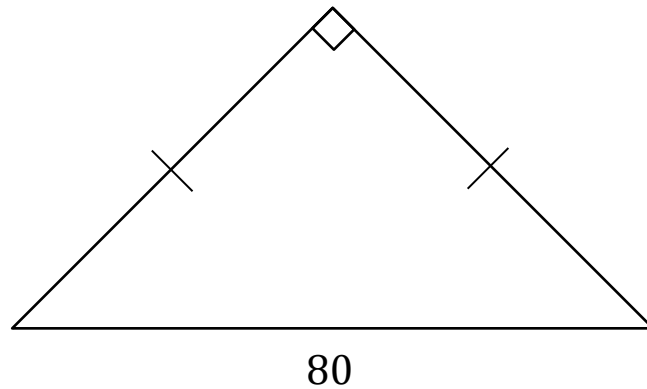$\underline{\quad}$, so: $\underline{\quad} + \underline{\quad} = c^2$
$$a^2 + a^2 = \underline{\quad}^2$$
$$2(\underline{\quad}) = 6{,}400$$
$$\underline{\quad} = \underline{\quad}$$
$$a = \sqrt{\quad}$$
$$a = \underline{\quad}$$

80

$$a^2 + b^2 = c^2$$
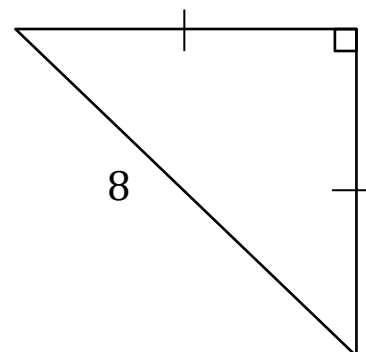$a = b$, so: $a^2 + a^2 = \underline{\quad}$
$$a^2 + a^2 = \underline{\quad}$$
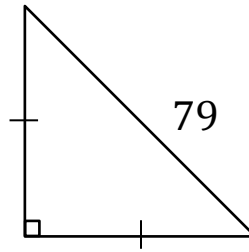$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$
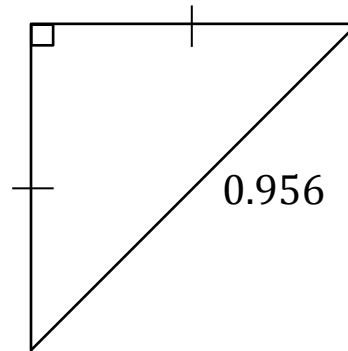$$\underline{\quad} = \underline{\quad}$$
$$a = \underline{\quad}$$
$$\underline{\quad} = \underline{\quad}$$

8

$\underline{\quad} + \underline{\quad} = \underline{\quad}$

$a = \underline{\quad}$, so: $\underline{\quad} + \underline{\quad} = c^2$

$\underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad}(a^2) = \underline{\quad}$

$\div$ by 2 $\qquad \underline{\quad} = \underline{\quad}$

$a = \underline{\quad}$

$\underline{\quad} = \underline{\quad}$

79

$\underline{\quad} + \underline{\quad} = c^2$

$a = b$, so: $a^2 + \underline{\quad} = \underline{\quad}$

$\underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad}(\underline{\quad}) = \underline{\quad}$

$\underline{\quad} = \underline{\quad}$

$\underline{\quad} = \sqrt{\underline{\quad}}$

$\underline{\quad} = \underline{\quad}$

0.956

$a^2 + \underline{\quad} = \underline{\quad}$

$\underline{\quad}$, so: $\underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad}^2 + a^2 = \underline{\quad}^2$

$\underline{\quad}(\underline{\quad}) = \underline{\quad}$

$\underline{\quad} = \underline{\quad}$

$a = \sqrt{\underline{\quad}}$

$\underline{\quad} = \underline{\quad}$

14.5

$\underline{\quad} + \underline{\quad} = \underline{\quad}$

$a = b$, so: $a^2 + a^2 = \pi^2$

$\underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad} + \underline{\quad} = \underline{\quad}$

$\underline{\quad} = \underline{\quad}$

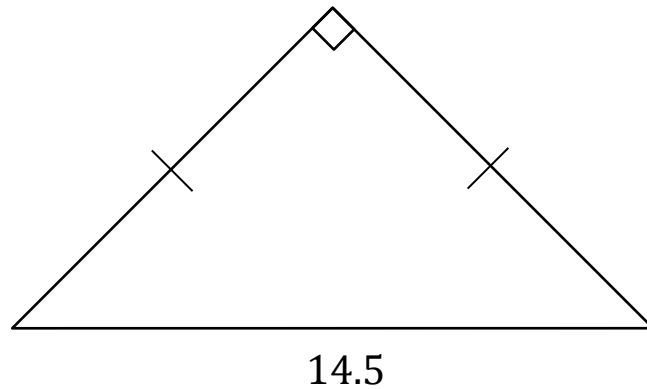$a = \underline{\quad}$

$\underline{\quad} = \underline{\quad}$

π