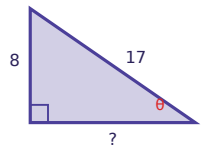
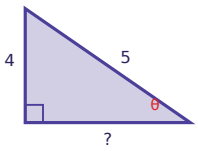
Double-Angle Formulas · 1

$\sin\theta = \frac{8}{17}$ and θ is acute. Find the exact value of cos 2θ.



Double-Angle Formulas · 2

$\sin\theta = \frac{4}{5}$ and θ is acute. Find the exact value of sin 2θ.



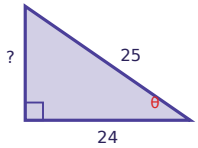
Double-Angle Formulas · 3

Find the exact value:

$\cos^2(67.5°) - \sin^2(67.5°)$

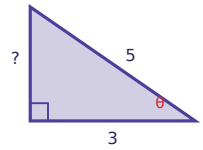
Double-Angle Formulas · 4

$\cos\theta = \frac{24}{25}$ and θ is acute. Find the exact value of sin 2θ.



Double-Angle Formulas · 5

$\cos\theta = \frac{3}{5}$ and θ is acute. Find the exact value of cos 2θ.



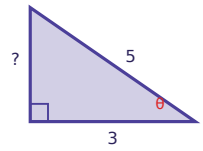
Double-Angle Formulas · 6

Find the exact value:

$\cos^2(22.5°) - \sin^2(22.5°)$

Double-Angle Formulas · 7

$\cos\theta = \frac{3}{5}$ and θ is acute. Find the exact value of sin 2θ.



Double-Angle Formulas · 8

Find the exact value:

$2\sin(15°)\cos(15°)$

Double-Angle Formulas · 2

ANSWER

$$\frac{24}{25}$$

Double-Angle Formulas · 1

ANSWER

$$\frac{161}{289}$$

Double-Angle Formulas · 4

ANSWER

$$\frac{336}{625}$$

Double-Angle Formulas · 3

ANSWER

$$\frac{\sqrt{2}}{-2}$$

Double-Angle Formulas · 6

ANSWER

$$\frac{\sqrt{2}}{2}$$

Double-Angle Formulas · 5

ANSWER

$$\frac{7}{-25}$$

Double-Angle Formulas · 8

ANSWER

$$\frac{1}{2}$$

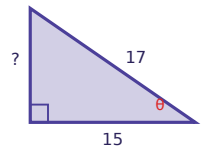
Double-Angle Formulas · 7

ANSWER

$$\frac{24}{25}$$

Double-Angle Formulas · 9

$\cos\theta = \frac{15}{17}$ and θ is acute. Find the exact value of cos 2θ.



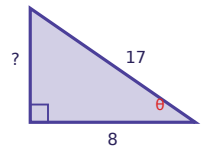
Double-Angle Formulas · 10

Find the exact value:

$2\sin(30°)\cos(30°)$

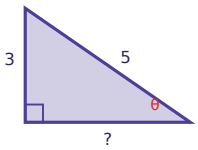
Double-Angle Formulas · 11

$\cos\theta = \frac{8}{17}$ and θ is acute. Find the exact value of sin 2θ.



Double-Angle Formulas · 12

$\sin\theta = \frac{3}{5}$ and θ is acute. Find the exact value of cos 2θ.



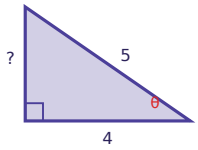
Double-Angle Formulas · 13

Find the exact value:

$2\sin(22.5°)\cos(22.5°)$

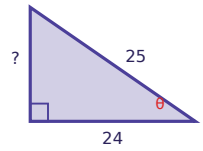
Double-Angle Formulas · 14

$\cos\theta = \frac{4}{5}$ and θ is acute. Find the exact value of sin 2θ.



Double-Angle Formulas · 15

$\cos\theta = \frac{24}{25}$ and θ is acute. Find the exact value of cos 2θ.



Double-Angle Formulas · 16

$\sin\theta = \frac{5}{13}$ and θ is in quadrant II.

Find the exact value of sin 2θ.

Double-Angle Formulas · 10

ANSWER

$$\frac{\sqrt{3}}{2}$$

Double-Angle Formulas · 9

ANSWER

$$\frac{161}{289}$$

Double-Angle Formulas · 12

ANSWER

$$\frac{7}{25}$$

Double-Angle Formulas · 11

ANSWER

$$\frac{240}{289}$$

Double-Angle Formulas · 14

ANSWER

$$\frac{24}{25}$$

Double-Angle Formulas · 13

ANSWER

$$\frac{\sqrt{2}}{2}$$

Double-Angle Formulas · 16

ANSWER

$$\frac{120}{-169}$$

Double-Angle Formulas · 15

ANSWER

$$\frac{527}{625}$$

Double-Angle Formulas · 17

Find the exact value:

$2\sin(67.5°)\cos(67.5°)$

Double-Angle Formulas · 18

$\sin\theta = \frac{7}{25}$ and θ is in quadrant II.

Find the exact value of cos 2θ.

Double-Angle Formulas · 19

$\sin\theta = \frac{4}{5}$ and θ is in quadrant II. Find the exact value of cos 2θ.

Double-Angle Formulas · 20

Find the exact value:

$\cos^2(30°) - \sin^2(30°)$

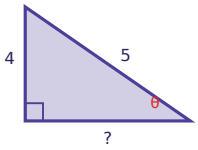
Double-Angle Formulas · 21

$\cos\theta = -\frac{15}{17}$ and θ is in quadrant II.

Find the exact value of sin 2θ.

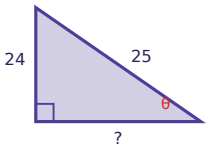
Double-Angle Formulas · 22

$\sin\theta = \frac{4}{5}$ and θ is acute. Find the exact value of cos 2θ.



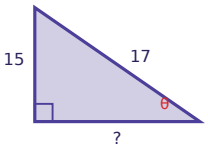
Double-Angle Formulas · 23

$\sin\theta = \frac{24}{25}$ and θ is acute. Find the exact value of cos 2θ.



Double-Angle Formulas · 24

$\sin\theta = \frac{15}{17}$ and θ is acute. Find the exact value of sin 2θ.



Double-Angle Formulas · 18

ANSWER

$$\frac{527}{625}$$

Double-Angle Formulas · 17

ANSWER

$$\frac{\sqrt{2}}{2}$$

Double-Angle Formulas · 20

ANSWER

$$\frac{1}{2}$$

Double-Angle Formulas · 19

ANSWER

$$\frac{7}{-25}$$

Double-Angle Formulas · 22

ANSWER

$$\frac{7}{-25}$$

Double-Angle Formulas · 21

ANSWER

$$\frac{240}{-289}$$

Double-Angle Formulas · 24

ANSWER

$$\frac{240}{289}$$

Double-Angle Formulas · 23

ANSWER

$$\frac{527}{-625}$$