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|  | IV Berechnungen in rechtwinkligen Dreiecken |  |  |  |  |
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Check-out Kapitel IV

Auf dieser Seite kannst du alle grundlegenden Inhalte des Kapitels wiederholen.

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|  | Checkliste |  |  |  | Wiederholung |
| 1. | Ich kann Längen in einem rechtwinkligen Dreieck und in Figuren mit dem Satz des Pythagoras berechnen. | 🞎 | 🞎 | 🞎 | Rückblick, Seite 110 |
| 2. | Ich kann Seitenlängen eines rechtwinkligen Dreiecks mithilfe von Sinus, Kosinus und Tangens berechnen. | 🞎 | 🞎 | 🞎 | Rückblick, Seite 110 |
| 3. | Ich kann die Weiten von Winkeln mithilfe von Sinus, Kosinus und Tangens in einem rechtwinkligen Dreieck berechnen. | 🞎 | 🞎 | 🞎 | Rückblick, Seite 110 |
| 4. | Ich kann den Satz des Pythagoras und die trigonometri­schen Funktionen nutzen, um in Anwendungssituationen Längen und Winkel zu berechnen. | 🞎 | 🞎 | 🞎 | Rückblick, Seite 110 |

1 Berechne die Länge x im rechtwinkligen Dreieck ABC bzw. im Rechteck ABCD mit dem Satz des Pythagoras.

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| I:\Klett_WORD\733392_LS BW 9 Serviceband\733392_Grafiken\Checkouts\SE96733392_G_K04_01.png |  | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  | I:\Klett_WORD\733392_LS BW 9 Serviceband\733392_Grafiken\Checkouts\SE96733392_G_K04_02.png |  | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |

2 Berechne die Längen x und y im rechtwinkligen Dreieck ABC mithilfe von Sinus, Kosinus bzw. Tangens.

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| I:\Klett_WORD\733392_LS BW 9 Serviceband\733392_Grafiken\Checkouts\SE96733392_G_K04_03.png |  | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  | I:\Klett_WORD\733392_LS BW 9 Serviceband\733392_Grafiken\Checkouts\SE96733392_G_K04_04.png |  | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |

3 Berechne die Winkel δ und λ im rechtwinkligen Dreieck ABC bzw. im Drachen ABCD mithilfe von Sinus, Kosinus bzw. Tangens.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| I:\Klett_WORD\733392_LS BW 9 Serviceband\733392_Grafiken\Checkouts\SE96733392_G_K04_05.png |  | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  | I:\Klett_WORD\733392_LS BW 9 Serviceband\733392_Grafiken\Checkouts\SE96733392_G_K04_06.png |  | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |  | |

4 Tina hat eine Augenhöhe von 1,50 m und steht 50 m vom Turm entfernt. Berechne die Höhe des Turms.

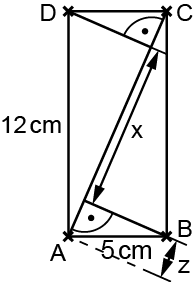
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  | IV Berechnungen in rechtwinkligen Dreiecken |  |  | Lösungen |  |
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Check-out Kapitel IV

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b)



2 a)

b) ;

3 a) ;

b) ;

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