**Trigonometry - exact values**

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| Name : | Class : | Date : |

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| **1)** Find the exact value of the following      a) sin °      b) cos °      c) tan 150 °  | [3]   |
| **2)** Complete the following table with the *exact* values.

|  |  |  |  |
| --- | --- | --- | --- |
|   | 120 ° | 135 ° | 150 ° |
| Sine |  |  |  |
| Cosine |  |  |  |
| Tangent |  |  |  |

 | [1]   |

**Solutions for the assessment Trigonometry - exact values**

|  |  |
| --- | --- |
| **1)**  a) sin ° =  $-\frac{\sqrt{2}}{2}$ |      b) cos ° =  $-\frac{1}{2}$ |
|      c) tan 150 ° =  $-\frac{\sqrt{3}}{3}or-\frac{1}{\sqrt{3}}$ | **2)**

|  |  |  |  |
| --- | --- | --- | --- |
| **angle** | 120 ° | 135 ° | 150 ° |
| **sin** |  $\frac{\sqrt{3}}{2}$ |  $\frac{\sqrt{2}}{2}$ |  $\frac{1}{2}$ |
| **cos** |  $-\frac{1}{2}$ |  $-\frac{\sqrt{2}}{2}$ |  $-\frac{\sqrt{3}}{2}$ |
| **tan** |  $-\sqrt{3}$ |  $-1$ |  $-\frac{\sqrt{3}}{3}$ |

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