Name _____ Date _____

Special Right Triangles (Trigonometry emphasis)- Guided Lesson Explanation:

Explanation#1

As we know the value of:

Sin 0° = 0; sin 60° = √3/2; tan 45° = 1

Sin 0° + sin 60° - tan 45° = 0 + √3/2 - 1

Sin 0° + sin 60° - tan 45° = -1.92

So, the answer is sin 0° + sin 60° - tan 45° = -1.92.

Explanation#2

As we know the value of:

Cot 30° = √3; sec 60° = 2; cosec 30° = 2

Cot 30° + sec 60° + cosec 30° = √3 + 2 + 2

Cot 30° + sec 60° + cosec 30° = 5.73

So, the answer is cot 30° + sec 60° + cosec 30° = 5.73.

Explanation#3

Tan 60° = √3; sec 0° = 1; sin 30° = 1/2

Tan 60° - sec 0° + sin 30° = √3 – 1 + 1/2

Tan 60° - sec 0° + sin 30° = 1.23

So, the answer is Tan 60° - sec 0° + sin 30° = 1.23.