

Evaluate - Fundamental Identities

Evaluate each expression.

1)
$$\frac{17 \tan^2 \frac{\pi}{5} \cos^2 \frac{\pi}{5}}{\sin^2 \frac{\pi}{5} \cot^3 \frac{\pi}{3}}$$

2)
$$-\sec 75^\circ \cos 70^\circ \csc 20^\circ \sin 15^\circ$$

3)
$$9 \sin 8^\circ \sec 8^\circ$$

$$3 + 3 \cot^2 \frac{7\pi}{20}$$

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5)
$$\frac{8 \cos 35^\circ}{\sin 55^\circ} + 6$$

$$\tan^2 \frac{23\pi}{60}$$