

Rappels de trigonométrie : exercices pour s'entraîner (réponses)

1. a) $\frac{13\pi}{9}$ (rad) b) $\frac{3\pi}{8}$ (rad)

2. 0,25 (rad)

3. 17,45 (cm)

4. 57,6 (cm)

5. 315,13°

6. a) $\cos \alpha = -\frac{\sqrt{15}}{4}$ $\tan \alpha = \frac{\sqrt{15}}{15}$ $\cot \alpha = \sqrt{15}$

b) $\sin \alpha = -\frac{\sqrt{21}}{5}$ $\tan \alpha = -\frac{\sqrt{21}}{2}$ $\cot \alpha = \frac{-2\sqrt{21}}{21}$

c) $\cos \alpha = -\frac{\sqrt{101}}{101}$ $\sin \alpha = \frac{-10\sqrt{101}}{101}$ $\cot \alpha = \frac{1}{10}$

d) $\tan \alpha = -2$ $\cos \alpha = \frac{\sqrt{5}}{5}$ $\sin \alpha = \frac{-2\sqrt{5}}{5}$

7. a) $-\sin \alpha$

b) $-\cos \alpha$

c) $-\tan \alpha$

d) $-\tan \alpha$

e) $-\sin \alpha$

f) $-\sin \alpha$