

SECTION 8.1, PROBLEM 9

Use the figure for exercises 1 - 5. Write each trigonometric value as a simplified fraction.

1. $\cos A = \frac{2}{\sqrt{29}}$

2. $\tan B = \frac{2\sqrt{2}}{3}$

3. $\cos B = \frac{2\sqrt{29}}{29}$



4. To the nearest hundredth, calculate $\sin B$.



5. Calculate $\sin B$ to the nearest hundredth.



6. Solve for B to the nearest degree.

$\tan B = \frac{10.0001}{10}$

$\tan B = \frac{32}{33}$

7. To the nearest degree, calculate the angle.



8. Calculate EF . Round your answer to the nearest tenth. Then calculate the AREA of $\triangle PFG$, rounding your answer to the nearest tenth.



$EF = 10.0 \text{ m}$

Area $\triangle PFG = 10.0 \text{ m}^2$