

**SECTION 8.1, PROBLEM 9**

Use the figure for exercises 1 - 8. 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.

$\tan B = 0.60084$

$\tan B = 0.6$

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.

