

Pre Calc HOW #20

Question 1

Find the exact value of:

$$\csc \left[2 \arcsin \left(\frac{-3}{5} \right) \right]$$

Question 2:

Find the equation of the parabola described below. Determine the two points that define the latus rectum, and graph the equation by hand. (pp662)

“The parabola has a focus at (0, -1) and directrix the line $y = 1$ ”

Question 3

Find the determinant of for the given matrices.(UH Pre-Calc)

A) $\begin{bmatrix} -6 & 1 \\ 5 & 2 \end{bmatrix}$

B) *Text book page 768 Problem 48*

C) Explain 1) Inflection point, 2) Concave up, and 3) Concave down

Question 4 (UH Pre-Calc.)

If P is a probability function and A and B are events. If $P(A) = 0.46$, $P(B) = 0.51$ and

$P(A \cup B) = 0.77$, What is the $P(A \cap B) = ?$

Question 5 (UH Pre-Calc.)

If $x^2 + y^2 = 13$ and $y^2 - x^2 = 5$, What is the value of $|xy|$?