Flashback 6

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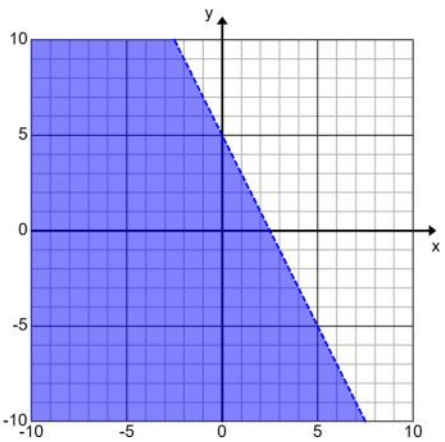
Pre-calculus 11 - Flashback # 6



1. Determine the inequality that matches this graph. List two points that are solutions.

2. Find all possible measure of ∠C in the ΔABC, where ∠A = 31°, a = 4.5 cm and c = 4.9 cm.

3. Consider the function $g(x) = x^2 + 10x + 15$ – state the roots, vertex, axis of symmetry, intercepts, minimum or maximum point, domain and range.

4. Determine the roots for $6x^2 - 19x = 7$

5. Simplify: $\frac{x^2-3x-28}{x^2-16} \cdot \frac{x^2-2x-8}{x^2+2x-8} \div \frac{x^2-16x+63}{x^2+4x}$

6. If $\tan\theta = \frac{5}{12}$, find $\sin\theta =$ _____ and $\cos\theta =$ _____ without using a calculator

7. Simplify: $\frac{2\sqrt{3}}{\sqrt{2x-1}}$

8. Solve: $\sqrt{4x^2+8} + 9 = 2x$

9. Two numbers have a difference of 8. Find the numbers if their product is a minimum. What is the equation?

10. If $f(x) = x^2 - 5$, describe what $|f(x)|$ looks like.